

Get out your screwdrivers, pliers, soldering iron & otherness, cause we've got two projects inside, courtesy of Mark Connelly, for you to build. Also, since last issue was thin, even though it had 24 pages in it, we here decided to give you a fat one to make up for last week....hope you enjoy it!

ERRATA In DXN #17, I kinda goofed, I gave credit to the wrong person for the info on the DXpedition to be held March 24 thru 26 at the 29 Palms Beverage Site. Credit goes to <u>Greg Hardison</u> (sorry Greg, I had Mike on my mind). Greg, mentions that Larry Boyer from New Zealand will be out there plus he'll be traveling around the U.S. (Have a good stay here Larry -HQ)

APRIL FOOLS ISSUE material should be in our hands here no later than MARCH 24th . So, dig out those funny items and get them to us real soon, there isn't much time left!!

To those asking how to get a membership roster, just send us a couple of stamps to coverage return postage to you. Please specify if you want it alphabetically by last name or by state, or if you want only those within the surrounding states around you, or whatever. To those spreading false rumors about the secret non-available membership list that isn't given out to other clubs, or to nembers, but sold for \$10 to ad agencies...we say 'bunk'!!! (what worries us, is some of you believe these people!...enuf said, now its back to licking stamps and filling sand bags,hi)

Martens Loop Those of you looking for a source for this antenna, we have been informed that Dajay Inports 450 S. Lafayette Park Place, Suite 115, Los Angeles, CA 90057, (213)-487-3387. The antenna will sell for \$95, which includes shipping. First orders are now out to those that ordered them.

NRC NIGHT PATTERN BOOK UPDATER 34 Maps, each contain new stns not shown on the current maps, can be inserted as a change page or you can redraw them onto your original book pages. Maps are same scale as set presently used. Patterns are drawn sharp and are as accurate as can be found anywhere!! US\$3.50 this price includes shipping!!! Order from the Pubication Center. And please allow 4 to 6 weeks for delivery.

CPC TESTS (TIMES ARE EASTERN LOCAL TIME)

- Feb 20 WHND-560 Monroe, MI 0230-0330, Big Band and March Music. Write to: Frederick Vobbe, Radio Station WHND, 5305 Vineyard Drive, Monroe, MI 48161, Also According to Fred, "NO SASE is required." Arranged by Frederick Vobbe & Frank.
- Feb 26 WLNT-1140 Loudon TN 0000-0100 1 kw ND Test will consist of country music w/voice IDs between selections. Periods of 1000 Hz tone will also be broadcast. PREPAID CALLS ONLY to: 615-458-4621. Reports to: Howard Oberholtzer, Jr. CE, Radio Station WLNT, P.O.Box 465, Loudon, TN 37774. Arranged for the NRC by Tom Connatser (Thanks Tom.HQ)

LOOK INSIDE:

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4....DDXD 7....IDXD 10....Ramblin' Back 11....The MWDX-2 Phasing Unit
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AM SWITCH

JERRY STARR C/O WSRD RADIO 401 N. BLAINE AVENUE YOUNGSTOWN, OHIO 44505

U.S.-Canada Ink

New AM Pact

among the terms of a new AM agreement igned in Ottawa recently by the United

The new daytimer hours went into effect in December, but formal signing of the pact

clears the way for the FCC to grant ikw of

nighttime power to Class 4's, now limited to 250 watts at night. A rulemaking for the

Most of the negotiations were taken up in resolving incompatibilities among 650 ap-plications for new fulltime AMs on the 25

American and seven Canadian clear chan-

nels. Those disputes have been settled, but

both countries have agreed to continue a freeze for new fulltime stations on the

5.5.

higher power is already underway.

FROM Atr

States and Canada

Extended daytimer hours and quadrupled nighttime power for Class 4 stations are

On January 20, 1984 the FCC's new regulations concerning call letters went into effect. Under the new system it is possible for a station to apply for a new call and get it approved in less than a week. Therefore we are changing the way we list calls here in AM Switch. There will no longer be separate catagories for Applications and Grants. All calls will be listed as being GRANTED. The method of getting new calls has been so simplified that we can expect to see lots of actions, some capricious, in this catagory. To get a new call a station has only to send a letter to the FCC telling them the new calls they intend to use and the date they expect to begin using them. The FCC simply cross-checks to make sure that call is not already granted. If the call is available, a telegram is sent to the station authorizing the new call and the station may begin using it immediatly. There is no waiting period, no filing fee, no forms to fill out. A station could change calls every week if it wanted to. So, without further ado, here's the first batch. NEW CALL LETTERS

01d c	Old call:		New call:	Old call:			Nev	call:	
690 810 850 970 1110	KTCR WDDW WIVK WOZN KPIP WELX	MN IL TN FL CA OH	Minneapolis Johnson City Knoxville Jacksonville Roseville Xenia	KTCJ WDDD WHIG WVOJ KRCX WMMX	1300 1390 1400	WHLT WNLT KSLY KKBZ WERD KITA	IN MN CA CA FL AR	Huntington Duluth San Luis Obispo Santa Paula Jacksonville Little Rock	WCER KBXT KUNA KAAP WZAZ KOKY
1150	KPRZ KISO	CA	Los Angeles El Paso	KUSA	1540	WPRZ	SC	Pickens Haynesville	WTB1 KLVU
1180 1230	WTBC *New	CA AL NH	Wasco Tuscaloosa Berlin	WIGL	1590	KCLU WRTR	MO WI	Rolla Two Rivers	KMOZ

APPLICATIONS FOR NEW STATIONS 600 KY Paintsville: 500 D1

720	GA	Hogansville: 1000001	
	ND	Lisbon: 500 D1	
770	MA	Walpole: 250 D1	
830	SC	St. Andrews: 10000/1000 U	4
890	TN	Frayser: 250 D1	
970	HA	Waimea: 5000/5000 U1	

Eagle River: 10000/2500 U1 1450 Hurley: 1000/250 U1

1470 WA Mt. Vernon: 500 D1

GRANTS FOR NEW STATIONS

, ,,,	110	Fallbina: 10000/1000 01	
780	MS	Ridgeland: 5000 01	
870	WI	Madison: 1000/1000 U4	
890	CA	Citrus Heights: 50000/1000	
1030	CA	Folsom: 50000/1000 U1	١
1180	KY		
1350		Florence: 1000 D3	
1350	MO	Washington: 500 D2	

APPLICATIONS FROM EXISTING FACILITIES

1120	WMSW	PR	Hatillo: night power to 5000 DA	
1140	WRNA	NC	China Canada power to 5000 DA	
1220		nc.	China Grove: 1000 D1 on 1030 kHz	
	MEDI	LA	Denham Springs: 10000/1000 U2 on	12
1320	WUNO	PR	San Juan: night power to 5000	
1330	KEMIL	LIA	suit suant might power to 5000	

Enumclaw: add 500 watts night, become U4

Menomonie: to 870 kHz 2500/1000 U2 KWOK

Wagoner: 1000 D1 WZZX AL

Lineville: to 780 kHz 5000 D1 WARD PA Pittston: to 1550 kHz 5000/500 U4 1570 KBJT

Fordyce: power to 1000 Marshall: to 960 kHz, reduce power to 2500 D1 KCGS

GRANTS TO EXISTING FACTUATED

860 930 1170	WEKO WOTB	UT PR MI	Salt Lake City: power to 50000 Cabo Rojo: power to 2500 nights Diamondale: move to 1180 kHz
1430	WIVE	VA	ASITIONS: DOWER to SOON 03
1450	KFLS	OR PA	Midmath Falls: move yo
1400	KWAZ	TX	Ambridge: adds 500 watts night, becomes U4 Lubbock: 1000/500 U2
1540	WCLP	GA	Lubbock: 1000/500 U2 Camilla: to 1400 kHz 1000/250 U1
1570	WFBZ	WI	Minocqua: power to 5000

OTHERNESS

Gainesville: this is the station all the services have been 550 WDUN GA listing as applying for 5000/2500 U2 on 1240 kHz, obviously they haven't been able to figure out the switch between WGGA and WDUN, etc. This corrects the tentative application listed here a few weeks ago.

1510 WMIB FL Marco Island: application for fulltime on 1480 returned by FCC Hartselle: application for new station DISMISSED by FCC 1530 *New AL

FOR YOUR INFORMATION: The latest FCC records show the following figures for AM Stations: Stations licensed: 4660, Stations with outstanding CPs (new stations only): 224, Applications pending for new stations: 493. Note that the outstanding CPs includes a number of new stations that are already in operation that have not yet received their regular license. Some stations operate for months on their CP before the regular license is issued.

All for now, more if it happens,

SIMEK & RKF

Jerry Starr & Buffalo K. Foonman



125 MAIN STREET, BOX 1110. SALEM: NEW HAMPSHIRE 03079

GREAT CIRCLE DISTANCES AND HEADINGS - A COMPUTER PROGRAM

Barry S. Finkel

I own a Casio FX-702P programmable calculator, which is programmed in BASIC. A while ago I decided that it would be handy to be able to calculate the distance and heading between my home and a station's transmitter; so I wrote the program that is listed below. I calculated the co-ordinates of my home using a United States Geological Survey 7% minute quadrangle topographic map. I find the co-ordinates of the city that I am receiving (or want to receive) using an atlas, FAA airplane map, or USGS quadrangle. (The FAA and USGS maps sometimes pinpoint transmitter locations).

My antenna, a McKay Dymek DA-5, has been modified with two pieces of cardboard so that I can tell the direction (angle) in which the antenna is pointing $(0^{\circ}-N_{o}-90^{\circ}-E, 180^{\circ}-5, and 270^{\circ}-W)$. Pointing my antenna at a station produces a null; pointing 90° away produces a peak. The program, after calculating the null and peak angles, transforms these angles so that they fall into the north semicircle $(270^{\circ}-0^{\circ}-180^{\circ})$.

The program should be easily translatable into other dialects of BASIC. The algorithm was taken from a Hewlitt-Packard Applications Book. The right-hand column documents the individual variables used in the program; the final results are stored in the variables D, N, and P (Distance, Null angle, and Peak angle). Co-ordinates are input in integer degrees and minutes; if I happen to have co-ordinates in seconds, then I convert the seconds to fractions of minutes. Statement 140 converts the distance from nautical miles into statute miles; statement 170 sets integer mode for output. The subroutine at statement 1000 performs the angle transformations - the input is in Y, and the output is in Z.

10 A=DEG(41,42,21)	
20 B-DEG(87,40,46)	
30 INP "LAT(DEG)=" , X , "LAT(MIN)=" , Y	
40 C=DEG(X,Y,0)	
50 INP "LONG(DEG)-" , X , "LONG(MIN)-" , Y	
60 D-DEG(X,Y,0)	
70 E=B-D	
80 G=60*ACS((SIN A*SIN C)+(COS A*COS C*COS E))	
90 Z=G/60	
100 H=ACS((SIN C-(COS Z*SIN A))/(SIN Z*COS A))	
110 IF SIN E< 0; H=360-H	
120 Z=H+90	
130 I-Z-(360*INT(Z/360))	
140 D=G*1852/1609.344	
150 Y-H: GSB 1000: N-Z	
160 Y-I: GSB 1000: P-Z	
170 SET F0	
180 PRT "D=" ; D ; " N=" ; N ; " P=" ; P	
190 GOTO 30	
1000 Z=Y	
1010 IF Y≤90; RET	
1020 IF Y ≥ 270; RET	

1030 Z-Y+180

1050 RET

1040 Z=Z-(360*INT(Z/360))

A: Chicago Latitude B: Chicago Longitude

C: City Latitude

D: City Longitude

E: Difference in Longitudes G: Distance in Nautical Miles

H: Null Angle (untransformed)

I: Peak Angle (untransformed)

X: Temporary Variable Y: Temporary Variable Z: Temporary Variable

DAVE SCHMIDT 42 CHELWYNNE RD. CASTLE HILLS NEW CASTLE, DE 19720

Here is the NRC column which is almost as exciting as the state song from Vermont as sung by David Hartman! When sending your contributions in, please type or neatly write, one side of the paper, EST, skip a line or two between items and all that jazz. Here it be: Rhythm of the City

DX TESTS:

1580 WBGB *Heard w/poor signal 0123-0200 w/oig band music, IDs. (TC-TN)
*ZZZZZZZ. (TC-TN)
*0200 ID snuck thru pause in WSRF and WLIM ET. (DS-DE)

FREQ. CHECKS:

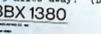
3rd Mon - KRDD-1320 anc'd f/c ending 0220 1/16. (WH-CO) WCHE-1520 beep tone weak u/WKBW 0037 1/16, no ID's. (TC-TN)

SPECTAL.

SFAG	TVD		
530	KCB638	MD	
790	WRUM	ME	
710	CHYR	ON	including ads and all! Relaying FM? (ERC-MA) LEAMINGTON - 12/31 1st noted after sunset not on 730, but here w/regular 10 kw power. Noted back on 730 1/2, guess the CRTC
850	WHIG	TN	was on vacation that weekend. (JP-MI) Lessons from the FCC!
860 1150		MD KS	BALTIMORS - 1/27 1700 noted w/s/off, weak. Ex-WAYE. (MT-MD) SALINA - Sked., 24 hours, NSP. (GH-KS)
1210	KASY	WA	AUBURN - 1/24 now here from 1220, noted 0240-0300 s/off, pop oldies and comedy cuts, anc'd as soon to be 24 hours, power 2500/1000 U3 or U4 now. (DKK-CA)
1390	WRSC	PA	
1510	PENCE	100	Market Decorate Control of the Contr

1540	KNGL	KS	MCPHERSON - Noted w/new calls, ex-KNEX. (GH-KS)
MIDDA	Y - M	IDNI	E:
570	WSYR	NY	SYRACUSE - 1/27 2359 good w/Talknet, promo for news, ID as "Newsradio 57". (JP-MI)
750	CBGY	NF	BONA VISTA - 12/27 1615-1655, 12/23 1628-1650 nicely atop in
790	WETB	TN	WHEB null w/CBC Talk show. (ERC-MA) JOHNSON CITY - 2/4 1806 very good w/rock music, birthday wishes, and ID. PSSA power? (DS-DE)
	WNWS	FL	S MIAMI - 2/1 1833 talk show, "News-Talk" ID, ads. (PS-CT)
860	WDMG	GA	DOUGLAS - 1/19 1820 good w/pop music followed by brief religious program and ID. (GL-MS)
900	WJWL	DE PA	GEORGETOWN - 1/26 1308 fair o/u WPIN w/CW music, ID. (WPT-MD) PHILADELPHIA - 1/26 1308 fair o/u WJWL w/classical music.(WPT-MD)
910	VALT	MS	Yeah, that's who it isbut what happened to WIMD? (DS) MERIDIAN - 1/22 1424 w/pop music, ID. (GL-MS)
	KGLC	OK	MIAMI - 1/26 2133 good. ID as "Super Country", weather then
920	CKNX	ON	local basketball game. (JP-MI) WINGHAM - 1/24 1633 surfaced o/WHJJ w/CW music, news. (PS-CT)
940	WCPC	MS	HOUSTON - 1/21 1251 good w/ID. weather. (LED-AL)
960	MSST	IN	SOUTH BEND - 1/27 2345 w/end of "The World Tomorrow" then ID, MYL/EZL type music, o/u WPIR. (JP-MI)
980	KVLV	NV	FABRON - 1/24 1935-1940 solid atop W/pop/CW music, many ada, (DKK)
1080	KRLD	NB	MUNUTUM - 1/21 1/01 fair w/CBC news. (WPT-DC)
3 11 11		**	DALLAS - 1/21 1830 good w/ID, weather, no WAPI-1070 splash, no sign of KAAY-1090. (LED-AL)
1150	KAGO	OR	KLAMATH FALLS - 1/18 1941 w/ode olding/mock (new gal)
1170	UNID	TN	DONELSON - 1/27 1723 u/WWVA w/MYL, ads, ID. (PS-CT)
	ONID		DONELSON - 1/27 1723 u/WWVA w/MYL, ads, ID. (PS-CT) 1/16 2008 fair w/MS state basketball. (GL-MS) It was likely a station in w/MS state basketball.
	WARP	AL	a station in MS, does that help? (DS) JASPER - 1/21 1425 good w/CW music, ID, u/WCRT. (LED-AL)
1250	WEMP	WI	
1280	WQUE	LA	NEW ORLEANS - 1/16 1934 mond or/mon 40 mond or 70
	WNPT	AL	
1290	WJBR	DE	WILMINGTON - 2/4 1754 poted w/news, weather, ID, pop music. (LMD)
-		_	w/some WFBG/jumble, 3 miles away! (DS-DE)







1300			(5)
	WQBK	NY	RENSSELAER - 1/27 1634 fair u/WFBR w/time check, ID during
	WIBR	LA	news. (WPT-MD) BATON ROUGE - 1/16 2001 good w/ID's on both ends of rundown of
	Marian	M: 4	areas served. (GL-MS) Or run over? (DS) DERRY - 12/18 1500-1600 doing well o/u regular WARA. (ERC-MA)
1320	WOER	AL	YORK - 1/21 1232-1240 good w/CW music, ABC sports, Alanet
1430	CWWW	PL	ATTAC ASSESSMENT OF THE PARTY O
450	KELI	OK	merca _ 1/16 1956 0/11 WWW W/"14K" ID's, disco music. (01-10)
	WIVE	VA	
			weather report. Noted while eating my baloney sandwich: (WFI-
1550	YAAY	AL	
	MMOO	AL	MOBILE - 1/21 1815 good w/s/off, no WAAY under. (LED-AL) MELBOURNE - 1/19 1744 fair u/K.XR w/mention of (Melbourne, partial
1560	WTAI	FL	ID. Positive ID on tentative of 2/28/79. (WPT-DC)
1500	WCCL	MS	JACKSON - 1/23 1937-1941 poor w/pop music w/KYOK/others.(GL-MS)
1590	W00T	Ma	anonoon - 1/c/ 1/2/ 1/2/ Pro-
MIDNI	ITE - H	IDDA	Y:
560	WGAN	ME	PORTLAND - 1/10 0158 ID, News, Larry King show. (FW-PA)
570	KRQX	TX	DATIAS - 2/1 0018-0020 good w/rock oldles, "K-Nocks" ID.(IU-IN)
630	KIDO	ID	BOISE - 1/31 0318 W/ID, local ads. (FW-PA) PROVIDENCE - 1/30 0448-0502 noted w/ET using TT on day pattern,
	•WPRO	RI	switched back to nite pattern before returning to reg. sked. (BC)
cen	APPR	10	ALECTRY 1/24 0325 nounding in W/ID, wint conditions to
660	CFFR	AB	north this AM. (DKK-CA)1/15, 1/28 0200 noted w/Top 40
			music ID vint signal. (WM=CU)
690	WVOK	AL	BIRMINGHAM - 1/1 1025 southern Gospel music show, local ad,
		_	ID equal w/CFTR-680. (JP-MI)
770	*WABC	NY	were volv - 1/30 0305 noted on TT this AM. Spanish under. (DS-DE)
810	WSJC	MS	wacer = 1/19 1128 good w/religious music u/wsh0-800.(GL-MS)
930	*WCCO	MN	MINNEAPOLIS - 1/15 0110 noted off this AM, OC at times. (JP-MI) PHOENIX - 1/30 0230 w/clear "Radio Viva" ID, Spanish talk and
860	KAAY	AZ	music, long, deep fades til 0301, clear English ID by female. (DS)
880	*WCBS	NY	NEW YORK - 1/22 noted totally off this AM, nothing else noted
300	- WODG	4.5	as the Cuban was off also, tried to land one of the new western
			as the Cuban was off also, tried to land one of the new western fulltimers here. (ERC-MA)1/29 0100 various TT noted on
			this Sunday AM. (DS-DE)
960	KMA	IA	SHENANDOAH - 1/28 0620 o/WFIR w/pro Farmers report, ad, ID.(JP)
980	*WFHG	VA	BRISTOL - 1/30 0312 loud w/Larry King, ID, evidently goes on
	1360.00	****	day pattern for monthly f/c, gone 0315. (DS-DE) ROCHESTER - 1/16 and every AM since, pounding in every AM, must
990	WNYR	NY	now be on new power level. (ERC-MA) Hey Jerry, confirmable?(DS
		LA	NEW ORLEANS - 1/19 1136 good W/ID. Sinatra song. (GL-MS)
	M.A. Ville		NEW ORLEANS - 1/19 1136 good w/ID, Sinatra song. (GL-MS) SEATTLE - 1/30 0400 OC, TT, clear ID at top of hour, noted w/no
1000	TAYW		
1000	*KOMO	WA	sign of Latins. (JP-MI)
			sign of Latins. (JF-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM,
	*KOMO		sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY
1060	*NNID	WA.	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS)
1060	*WDEL	WA DE	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON = 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA)
1060	*NNID	WA.	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals,
1060 1150	*WDEL KSPL	WA DE WA	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA)
1060 1150	*WDEL	WA DE	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA)
1060 1150 1190	*KOMO *UNID *WDEL KSPL *KEZY	WA DE WA CA	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA)
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1060 1150 1190 1210	*KOMO *UNID *WDEL KSPL *KEZY *WCAU KREW	MA DE WA CA PA WA	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for MMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on BT w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/Spanish program, ID, CBS news then s/off. (WH-CO)
1060 1150 1190 1210	*KOMO *UNID *WDEL KSPL *KEZY *WCAU	WA DE WA CA PA	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/Spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock
1060 1150 1190 1210 1220	*KOMO *UNID *WDEL KSPL *KEZY *WCAU KREW CKDA	MA DE WA CA PA WA	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, Jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/Spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA)
1060 1150 1190 1210 1220	*KOMO *UNID *WDEL KSPL *KEZY *WCAU KREW CKDA *UNID	WA DE WA CA PA WA BC	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for MMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on BT w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/25 0007 noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC)
1060 1150 1190 1210 1220	*KOMO *UNID *WDEL KSPL *KEZY *NCAU KREW CKDA *UNID #JOY	WA DE WA CA PA WA BC	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on BT w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/25 0007 noted w/Spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURNINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA)
1060 1150 1190 1210 1220 1230	*KOMO *UNID *WDEL KSPL *KEZY *WCAU KREW CKDA *UNID #JOY WJOY WJOY	WA DE WA CA PA WA BC VT	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, Jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xint w/black googe music. (GL-MS)
1060 1150 1190 1210 1220 1230	*KOMO *UNID *WDEL KSPL *KEZY *NCAU KREW CKDA *UNID WJOY WJOK WTAM	WA DE WA CA PA WA BC VT LA MS	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, Jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xint w/black googe music. (GL-MS)
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1060 1150 1190 1210 1220 1230 1240 1260	*KOMO *UNID *WDEL KSPL *KEZY *NCAU KREW CKDA *UNID WJOY WJOK WTAM	WA DE WA CA PA WA BC VT LA MS NB	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, Jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/Spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xint w/black gospel music. (GL-MS) GULFPORT - 1/19 1119 good w/ID, B/Sol music. (GL-MS) FREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID's and
1060 1150 1190 1210 1220 1230 1240 1260 1270	*KOMO *UNID *WDEL KSPL *KEZY *NCAU KREW CKDA *UNID #JOY #JOY #JOK MTAM CIHI *WXYZ #HPB	DE WA CA PA WA BC VT LA MS NB MI IL	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on BT w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/25 000? noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xint w/black gospel music. (GL-MS) GULFPORT - 1/19 1119 good w/ID, B/Sol music. (GL-MS) FREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID's and female anc'r, not often heard this season. (DS-DE) DETROIT - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0121 good w/WYZ off w/CW music, ID.(JP-MI)
1060 1150 1190 1210 1220 1230 1240 1260 1270 1410	*KOMO *UNID *WDEL KSPL *KEZY *WCAU KREW CKDA *UNID WJOY WJOK WTAM CIHI *WXYZ WHFBB CKSL	DE WA CA PA WA BC VIA MS NB MILLON	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xlnt w/black gospel music. (GL-MS) FREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID's and female anc'r, not often heard this season. (DS-DE) DETROIT - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0121 good w/MIYZ off w/CW music, ID.(JP-MI) LONDON - 1/15 0308 weak u/WING w/ID, rock music, (JP-MI)
1060 1150 1190 1210 1220 1230 1240 1260 1270 1410	*KOMO *UNID *WDEL KSPL *KEZY *WCAU KREW CKDA *UNID #JOY WSOK WTAM CIHI *WXYZ WHFB CKSL	DE WA CA PA WA BC VT LA MS NB MI IL	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xlnt w/black gospel music. (GL-MS) GULFPORT - 1/19 1119 good w/ID, B/Sol music. (GL-MS) PREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID's and female anc'r, not often heard this season. (DS-DE) DETROIT - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0308 weak u/WING w/ID, rock music. (JP-MI) WARREN - 1/29 0230-0250 good w/female anc'r, rock music, and
1060 1150 1190 1210 1220 1230 1240 1260 1270 1410	*KOMO *UNID *WDELL KSPL *KEZY *NCAU KREW CKDA *UNID #JOY #JOY #JOK #TAM CIHI *WXYZ #HFB CKSL WRRO	DE WA CA PA WA BC VT LA MS NB MILL ON OH	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/25 000? noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xlnt w/black gospel music. (GL-MS) GULFPORT - 1/19 1119 good w/ID, B/Sol music. (GL-MS) FREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID's and female anc'r, not often heard this season. (DS-DE) DETROIT - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0308 weak u/WING w/ID, rock music. (JP-MI) WARREN - 1/29 0230-0250 good w/female anc'r, rock music, and sports scores. (N2-NE)
1060 1150 1190 1210 1220 1230 1240 1270 1270 1410 1440	*KOMO *UNID *WDEL KSPL *KEZY *WCAU KREW CKDA *UNID #JOY WBOK WTAM CTHI *WXYZ WHFB CKSL WRRO WRBE	DE WA CA PA BC VT LA MS NB MILL ONN OH	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on BT w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/Spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xint w/black gospel music. (GL-MS) GULFPORT - 1/19 1119 good w/ID, B/Sol music. (GL-MS) FREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID's and female anc'r, not often heard this season. (DS-DE) DETROIT - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0121 good w/WXZ off w/CW music, ID.(JP-MI) LONDON - 1/15 0308 weak u/WING w/ID, rock music. (JF-MI) WARREN - 1/29 0230-0250 good w/Female anc'r, rock music, and sports scores. (NZ-NE) LUCEDALE - 1/17 0823 fair w/WHHY/KMLB w/promo for CW show.(GL-MS)
1060 1150 1190 1210 1220 1230 1240 1260 1270 1410	*KOMO *UNID *WDELL KSPL *KEZY *NCAU KREW CKDA *UNID #JOY #JOY #JOK #TAM CIHI *WXYZ #HFB CKSL WRRO	DE WA CA PA WA BC VT LA MS NB MILL ON OH	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT. PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xlnt w/black gospel music. (GL-MS) FREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID: and female anc'r, not often heard this season. (DS-DE) DETROIT - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0308 weak u/WING w/ID, rock music. (JP-MI) WARREN - 1/29 0230-0250 good w/female anc'r, rock music, and sports scores. (M2-NE) LUCEDALE - 1/17 0823 fair w/WHHY/KMLB w/promo for CW show.(GL-MS BROCKVILLE - 1/7 w/ID, news. (FW-PA)12/20 0145 noted atop
1060 1150 1190 1210 1220 1230 1240 1260 1270 1410 1440	*KOMO *UNID *WDEL KSPL *KEZY *NCAU KREW CKDA *UNID *JOY M90K MTAM CIHI *WXYZ WHFB CKSL WRRO WRBE CFJR	DE WA CA PA WA BC VILA MS NB MI ILL ON MS ON	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, E2L vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on BT w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/25 000? noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xlnt w/black gospel music. (GL-MS) GULFPORT - 1/19 1119 good w/ID, B/Sol music. (GL-MS) PREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID's and female anc'r, not often heard this season. (DS-DE) DETROIT - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0328 weak u/WING w/ID, rock music. (ID-MI) WARREN - 1/29 0230-0250 good w/WYZ off w/CW music, ID.(JP-MI) WARREN - 1/29 0230-0250 good w/WHYZ off w/CW music, and sports scores. (NZ-NE) LUCEDALE - 1/17 0823 fair w/WHHY/KMLB w/promo for CW show.(GL-MS) BROCKVILLE - 1/7 w/ID, news. (FW-PA)12/20 0145 noted atop w/ID and slogan "Information Radio". (ERC-MA)
1060 1150 1190 1210 1220 1230 1240 1270 1270 1410 1440	*KOMO *UNID *WDEL KSPL *KEZY *NCAU KREW CKDA *UNID *JOY M90K MTAM CIHI *WXYZ WHFB CKSL WRRO WRBE CFJR	DE WA CA PA BC VT LA MS NB MILL ONN OH	sign of Latins. (JP-MI) 1/9 0137-0204 someone here w/ID for WMJX Boston, Magic 103.7 FM, this has me mystified! (ERC-MA) Where is BIG GEORGE KELLEY these days? (DS) WILMINGTON - 1/30 0100-0135 ET w/Tone, music, OC and IDs.(CS-PA) SEATTLE - 1/26 0242 w/ID thru din in KPRZ null, EZL vocals, in/ou for next 15 minutes. (DKK-CA) ANAHEIM - 1/24 0305-0315+ blowing KEX away on ET w/day pattern, hard rock music, jingle/ID and OC. (DKK-CA) PHILADELPHIA - 1/30 0210 noted w/various TT, PoP this AM.(DS-DE) SUNNYSIDE - 1/23 0007 noted w/spanish program, ID, CBS news then s/off. (WH-CO) VICTORIA - 1/25 0343 o/u CJOC w/talk and ads then into rock music, good consitions to north. (DKK-CA) 12/15 0106-0116+ someone here w/PoP, fairly good signal.(ERC) BURLINGTON - 12/30 0129 w/ID, evidently AN. (ERC-MA) NEW ORLEANS - 1/19 1118 xlnt w/black gospel music. (GL-MS) FREDERICTON - 2/3 0115 fair w/WWDC w/rock music, ID: And female anc'r, not often heard this season. (DS-DE) DETROIT - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0120 noted off this AM, OC noted on hour.(JP-MI) ROCK ISLAND - 1/15 0308 weak u/WING w/ID, rock music, ID.(JP-MI) WARREN - 1/29 0230-0250 good w/female anc'r, rock music, and sports scores. (NZ-NE) LUCEDALE - 1/17 0823 fair w/WHHY/KMLB w/promo for CW show.(GL-MS BROCKVILLE - 1/7 w/ID, news. (FW-PA)12/20 0145 noted atop

(6)			
1480	CKAN	ON	NEWMARKET - 1/29 0115-0135 spotty but atop at times w/auto- mated sounding CW music, little talk. (DS-DE)
1520	*WKBN	NY	BUFFALO - 1/6 noted totally off this AM (Friday), no sign of Toledo, one very weak w/rock sounding music, UNID. (ERC-MA)
1550	CBE	ON	WINDSORE - 2/1 0005-0007 good w/end of CBC news, weather then later w/classical music. (TC-TN)
1560	WSDL	LA	SLIDELL - 1/19 1122 good w/Swap Shop program. (GL-MS)
1570		ON	ST. THOMAS - 2/1 0030-0034 fair u/XERF w/rock music, no listing
			for this guy, where? (TC-TN) Figures, it's listed as CKIS in the log, remember when he was on 680? (DS)
1580	WSRF	FL	
	*WLIK	NY	
1590	*UNID		12/16 0038-0116 tones noted on/off here, fairly strong at times, u/WQQW til their s/off then equal w/WASY, this Friday AM time is roughly the old time for the WERA-NJ f/c, they? (ERC-MA)
1610	UNID		2/1 0007 someone very weak here w/Gatlinburg Information Radio, this TIS has been noted on 530 in the past but not tonite, what gives? (TC-TN) United Way does (DS)

RANDUMBS:

JIN PAIGE, Detroit, MI writes that after checking 1530 for WDEY-Lapeer, MI, they are indeed on the air but very directional north, ID's given as "103 FM, 1530 AM", barely audible in Detroit. Station is on, not off as earlier reported.

And Jim also reports the address given by WYAT a few issues back as 1639 Chateau Blvd., New Orleans was no good. PO returned report as no such address but this was noted given on their s/off! Help?

The DX season hasn't ended yet, keep those reports coming, we can use the help....we can't have this column as thin as IDXD-hi!

MT-MD/Mike Tuggle, Bel Air, MD/Lyonodyne Xtal, LW PS-CT/Paul Stephan, Old Greenwich, CT/R70, Radio West Loop, LW NZ-NE/Neil Zank, Lincoln, NE/HQ180A, RF2600 FW-PA/Frank Wheeler, Erie, PA/Halicrafters \$40B, Steward Loop WPT-MD/Bill Townshend, Wash. DC (at work MD)/TRF.ICFS5W
WPT-DC/Bill Townshend, Nashington, DC (Home)/TRF, ICFS5W
TC-TN/Tom Connatser, Sevierville, TN/ Superadio
JP-MI/Jim Paige, East Detroit, MI/Channel Master Portable, DX160, LW ERC-MA/Ernest Cooper, Provincetown, MA/HQ180, LW, Loop, Superadio WH-CO/Wayne Heinen, Aurora, CO/R390A, RBB4, Mw1, LW BC-RI/Bruce Conti, W Warwick, RI/DX400, SM2 CS-PA/Charles Slezak, Oxford, PA/WDEL Transmitter Room! DKK-CA/Don Kaskey, San Francisco, CA/HQ140X, SM2 GH-KS/Gary Houdek, Munden, KS GL-MS/Greg Ledbetter, Purvis & Picayune, MS LED-AL/Greg Ledbetter, Birmingham, AL DS-DE/Not who you think!/HQ180A, SM2, Superadio, Short LW!

And thanks to MK and ERC for the logo's! More next time! 73's - Good DX! Including some BEACON's from Robert Krammer!

New Call Sign Rules Trigger Flood Of Changes

In the ten days since the FCC's loosened call letter rules took effect (1-20), the Commission has been deluged with requests for

mission has been deluged with requests for name changes. Apparently many stations were just waiting for new procedures, in which new calls are assigned as quickly as one day after they're requested. New calls were assigned to 44 stations this week, about three times the previous average. While none of the call signs ap-pears to suggest obscernities or ethnic slure, at least one set was previously off limits. KPRZ/Los Asgeles was renamed KUSA. The station had been seeking those betters for some time, but ran afoul of the now-defunct requirement that "suitable clear-defunct requirement that "suitable cleardefunct requirement that "suitable clear-ance" be obtained to use letters that spell the name of a government agency or US President, Can KFBI, WCIA and WJFK be far behind? Other calls assigned this week include WLTW/New York (formerly WKHK), WVOJ/Jacksonville (WOZN),



P.O. BOX F PITTSBURG, KAN, 66762

KLOK-FM/San Francisco (KGO-FM), KTCJ/Minneapolis (KTCR), KLZZ/San Di-ego (KPRI), and KLUV/Dallas (KLVU).

Meanwhile, in a petition for partial reconsideration, NAB has asked the FCC to resinceration, NAB has asked the FUU to re-sume its role in resolving call letter dis-putes, a job now left to local courts, NAB buttressed its case with a study, "Call Let-ter Coefusion and its Ratings Impact," pre-pared by the firm Hilber, Hart & Patrick.

VEN PLA JOY SEAR

3 applying for AM radio frequency near St. Paul Associated Press

Washington, D.C.

The Federal Communications Commission said Tuesday it has ordered hearings to compare the qualifica-tions of three applicants for the right to use the AM frequency of 1100 kilobertz near St. Paul.

One applicant, Newport Broadcasting, wants to shift its KMAP-AM in South St. Paul from 1370 kilohertz to 1100 kilohertz to increase its range. The station is off the air because of

transmitter and antenna difficulties

The other applicants want to build new stations. They are Benito Juarez Sandoval, who wants to build in Newport, Minn., and the Frontier Radio Corp., which wants to use the frequency for a new station in nearby Madison Lake, Minn.

John SAMPSON

ERNATIONAL

like??? CH

CHUCK HUTTON 1035 LATHAM ROAD DECATUR.GA 30033 (404) 633-1198 BEFORE 2300 ELT

Times are GMT. For ELT subtract 5 hours. Deadlines are usually Monday

Test...test...test... typewriter looks better now I think Mike. Now to get a new ribbon. (Thanks Chuck .-HQ) VENEZUELA YVKE 0901 1/27 local level with nice ID at tunc-in; "desde araces, capital de la republica de Jenezuela, transmite Mundial con 10,000 vatios de potencia musical" and "nuestra musica nacional por YVEE Mundisl". (Reinstein) I guess that ID is good enough....CH SPAIR Madrid 2341 1/19 35 talk by man and woman fair. (Hakiel) COLOMBIA HJCR 0050 1/27, belsdes to 0057, partial ID by man neard: "por uda,, el camino..en Radio Sutatenza". Religious talk at 0700. 590 Esther wesk signal. (Reinstein) COLOMBIA 0909 1/27 per donnelly log in #15, oddly enough mad 3 time tones at 0909 followed by ID "Radio Ciudad de Cartagena..de la costa". Presume this is not the Cali atm since Cali is nowhere 620 near the coast. (Reinstein) PORTUGAL Lisbon 1/22 0039 with alternating male and female anners in PP and brief musical excerpts. Good signal. (Herkimer) USSR Lithuania Vilnius 1/18 0509 male via phone, the female w/RR type talk (Lithuanian listed). (Vernon) SPAIN Sevilla 0056 1/19 old pop tune "Down Mexico Way", SS talk, 681. good. (Hakiel) ENGLAND proitwich 0539 1/15 EZL mx, EE talk poor-fair. (Hakiel) 693 JAMAICA HJR 0930 1/27 week level with morning religious program, 720 heavy Caribbean accented preacher. (Reinstein SPAIN Barcelons RME 1/10 021) with lush 55 belieds and man anner. 730 (Herkimer) SEMEGAL Dakar 1/22 0054 heard briefly at good level with flutes, grums, and man in vernacular. Anthem and s/off at 0103. (Herkimer) 2212 1/14 men in vernacular leng, xlnt. (Hakiel) USSR Medvezyegorsk 1/15 Og06 male and female anners // 236, 801, 765 Program One good. (Vernon) SPAIN synchros 0250 1/1a SS pop mx, SS talk, good. (Hakiel) 714 PORTUGAL Miramor 1/19 2343 with PP songs and woman anner, faded by 103 0000. (Herkimer) 2324 1/13 flamenco mx, PF talk, good. (Hakiel) SCOTLAND Westerglen etc. 1/10 0559 female with mention or different 810 wavelengths during s/on. (Vernon) USSR Estenian 35x Voru 1/10 U231 believe to be the one w/uSSx an-810t them, same time as 1035 etc., did not check for Estonian anthem later. (Vernon) USSR Viadivostok 1/15 1011 male w/cc talk then female w/same, poor. (vernon) PANAMA HUHbo 1055 1/26 fair signal at tune-in w/cumbia style pop 825 mx, man Do with time eneck for 5:57 and mention of "Panameno". Lost under local powerline QRN by 1100. (Reinstein) Quit DX'ing from under the lines! CH ARGENTINA nuenos Aires Un05 1/25 lovely guiter solo, fair, (makiel) 870 USSR Mezen 1/10 U340 1 KHz TT for 5 seconds then silence for 5, 873 this repeated often, noted w/female annor, 0400, no anthem type s/on, // 1125 probably Program Three. (Vernon) ALGIERS Algiers 2140 1/19 AA vocals by man, xint. (Hakiel) 091 SAUDI AHABIA AI Quarayyat 1/20 0301 male w/AA wailing. (Vernon) 900t UNID 11/15 probebly Aims Ata again, male w/CU talk, good, not // 400 810 though. (Vernon) ENGLAND BBC synegros 0102 1/15 EE talk, fair. (Hakiel) 909 MOROCCO Agadir 1/18 0415 male AA wailing, never noted before. 936t USSR Ukrainian SSK Lvov 1/20 0255 noted w/many verses of the Uk-450 reinish sathem, USSR anthem noted 0301 // 999, 1059, 1143. (Vernon) FRANCE Toulouse 2226 1/19 FF talk, fair. (Hakiel) 945 USSH Latvian SSR Higa 1/10 0254 male singer // 1000, 1026 Program 945 Two. noted w/Hayak 1S 0259. (Vernon) TURKEY R. Trabzon 1/15 0259 Turkish snthem in progress, 0300 tone 954 (sounded like a bang on a pan), female anner, xint sig, also on tape. (Vernon) BULGARIA Dregomen 1/10 010hr light orchestral mx and light classicsi, no talk noted till 0130 then female anner, This is ususi morizont type pgm. (vernon) Wonder what the Vertic program sounds

EESI Seems like they are in EE 0000-0030 UTC mondays, xlnt. (Hekiel) SPAIN H. Centro, Madrid 1/20 0305 male w/talk o/band mx, many R.

1314

Centro ID's. (Vernon)

7 345 ALBANIA Lushnje 2307 1/15 Slav taik by woman, good. (nakiel) 1440 JAPAN JUNF Sapporo 1/14 1/14 JJ mx mixing w/AA Saudi Arabia waliing, both xint. (Vernon) LUARMEDUNG Marnach 1/10 UZUS enner Bob Stewert mentioned all time THEO T-50 played earlier (1/15) on Lux's 50th birthday. (vernon) USSR unid 1/20 0200 USSR anthem enecks w/kalinin except for simost 7449 ever present signal here. (Vernon) MUNACU Monte Carlo 1/10 2227 with conclusion of "Back to the Bible" 1461 produced by the Good News proadcasting Corporation, very strong signal. (herkimer) 22/3 1/10 religious pgm in En. (sir. (Hakiel) UNITED AMAD BRIMATES Dubai 1/19 1537 male AA type wailing, fair. 1401 (Vernon) 1494 USSR Moldavian SSK Komrat/heltsy 1/17 0312 femsie singer u/EE Leningrad // '40%. (Vernon) POLAND Stargard Szzzeenski Obits 1/15 Polish talk by man, poor. 1503 SAUDI Amamia Dubna 0315 1/15 AA cnants w/flute background, good. 1521 (HSK101) FRANCE NICE UDZ1 1/15 FF talk, fair-good. (makiel) 1575 THAILAND YOA Ban Fachi 1/9 1520 Yankee Doodle IS noted 1531 male vis phone w/Pelestinian nx, then studio male with talk of earthquake in Indonesia, then item about Marcos, fair signal w/CU QMM. (Vernon)

WEST GERMANY Langenberg 0334 1/13 pop mx, 00 talk, good. (makiel)

And the stuff this time came from:

George Hakiel-W. 1slip, NY Jim Herkimer-Caledonia, NY Steve Keinstein-Miramar, FLA Brish Vernon-Elsa, Yukon R/A, R70, LW, loops, phasing unit R390A, Bohac altez R70, Rr2200, 190' LW PRG7000, R/A, 6 Beverages (3 useful)

And that be sil.....

1593



ith Dotor Vome

NDTES ON A 50 KW STATION BY Joseph Chanbers Technical Supervisor, Broadcasting Division, Crosley Radio Corp.

This installment summarizes some of the outstanding features of WLW's transmitter.

- The normal carrier delivered to the antenna is 500,000 watts.
- 2. 100 per cent modulation is obtained.
- This means that 2,000,000 watts is radiated at peaks of modulation.
- 4. An average of 1800 kva of power is required.
- The frequency characteristic of the entire transmitter is flat (within 2 db) from 30 to 10,000 cycles.
- The total audio frequency harmonics do not exceed ten percent up to ninety-five percent modulation.
- The redio harmonic radiation is so low that any point in the harmonics will not be greater than 1/100 of one percent fundamental.
- Rectifier filaments which require 30 minutes to heat up are turned on by a time clock. A spare tube is kept hot at all times.
- 9. The starting control system will start the entire transmitter automatically in proper sequence and with proper time delays, if desired, or individual control of any part of the sequence is obtained by switches on the studio console.
 10. In case of momentary failures, such as arc-overs or tube flash which can be cleared by removal of the power, the transmitter is automatically restarted in about 1/5th of a second.
- 11. In case of failures requiring attention, the unit containing the failure is automatically isolated and the transmitter automatically restarted in about one second and continues to operate on slightly reduced power.
- 12. 22,500 cubic feet of air per minute is circulated for cooling various parts of the transmitter.
- 13. 500 gallons of distilled water and 700 gallons of city water are circulated each sinute for tube cooling. A spray pond 75 feet square is used for cooling the city water.
 14. A .58 wave vertical radiator, 830 feet high, is used as the antenna.

Certainly quite a technical for FIFTY YEARS AGO....

NEW!!



52 PACKED PAGES

BEVERACE AND LONGHURE ANTENNAS ..

THIS MANUAL IS A COMPILATION OF MITTEROUS ANTICLES OF THE SUBJECT OF DESIGN AND INTERPRETATION OF THE PERFORMANCE OF THE TOTAL OF THE PERFORMANCE OF THE PERFORMANCE

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NRC PUBLICATIONS CENTER P.O. BOX 164 MANNSVILLE, NY 13661

JUST RELEASED !!



(11)

By Mark Connelly - Wallon DX LABS - 10 Jan 84

There's been a renaissance in serious DXing in the '80s - truly fantastic catches by Neil Kazaross, George Hakiel, Brian Vernon, Bill Bailey, Pat Martin, and others frequently evoke memories of the late '60s Kelson era touted by some as the 'golden age of DXing'. Actually the current DX reported is of BETTER quality when you consider the increased donestic station & man-made noise QRM problems besetting us today.

Phased Beverages or phased longwires are an important part of many top notch foreign-DX listening posts. As mentioned in previous discussions of phasing, it is not always a direct substitute for a good loop; simultaneously, a good loop is not always a substitute for phased wires. The serious modern MW DXer calls upon both methods of 'pest' nulling frequently and soon recognizes which method will work better for a given kind of DX at his QTH.

A few years back, an article describing the construction and use of the "MWDX-1" passive phasing unit was published. Several people have built variations of this unit and have generally had good luck with it.

Interest in phasing units has remained high, especially in light of the recent Kaz-lead African/northeastern Brazilian DX 'stampede'. Recent experimentation with phasers having dual active-tuner inputs has shown that acrials as short as 2 ft/ 0.6m (e.g. car whips) may be phased to produce nulls of unwanted stations, reducing QRM to both weaker co-channel stations & to adjacent channel stations.

Q-Spoiling: Key to Phase null Stability

Testing of both active and passive phasing systems has been done at my West Yarmouth (Cape Cod), MA. foreign-DX monitoring station/antenna lab. Also. Neil Kazaross has helped me greatly by testing phasing units at his superb DX QTH in Oqunquit Beach, Maine - the first permanently - occupied Atlantic seashore Beverage - equipped installation in many, many years. (As we should all know, salt water on desired paths coupled with poor-ground blockage on undesired paths can be as valuable to a knowledgeable low-angle [e.g. foreign] and groundwave DXer as the best receiver money can buy.)

Both Neil and I have established that steadiness of nulls is superior on phasers using dual passive-series-tuner (PST) inputs than on those using initial-design active-parallel-tuner (APT) inputs.

The reason for this turns out to be primarily a matter of tuner circuit Q [selectivity]. The APT-type input, unless deliberately Q-spoiled, is so sharply tuned that null stability, even on groundwave stations, is inferior to that of the older PST-inputs design. A sure sign of excessive Q in a phasing unit's input tuners is that, when a pest - station's carrier is nulled, the sidebands are still strong, producing the 'Donald Duck audio' reminiscent of ham SSB copied on a receiver in the AM mode. A proper phasing system must consist of tuners sufficiently broadband that when a moderate-strength station is phased, its audio and carrier go away together, leaving clean reception of subdominants which, initially, may have been 40 dB below the dominant station. Minor touch-up of the vernier null controls should remove all slop from 10 KHz adjacent stations which were originally 60 dB weaker than the now-nulled pest

A dual-APT-input type phaser (= active phaser) can be Q-spoiled to enhance null stability: this can be accomplished by installing a O to 100K pot in parallel with each APT's tuning capacitor. The same technique can be used to Q-spoil loops - an important consideration for stable loop vs. wire or loop vs. loop phasing arrangements. Some have assumed that the transistors in loop amps. & active wire tuners lacked phase/gain stability, hence causing unstable nulls. This is less likely to be the problem than the inherently high Q of such circuits.

Future articles are planned to deal with improved shortwave phasing using Q-spoilable active input tuners. Also under design: a dual Passive Parallel Tuner [PPT] longwire phaser of comparable performance of the MWDX-2 and having as benefits simpler operation and easier construction.

The PST-type input tuner design works well as Q is spoiled by adjustment of the series pot between the aerial's impedance and the impedance of the associated passive series input tuner. Of course, anytime the Q of a tuned circuit is degraded, system sensitivity decreases and the likelihood of spurs from off-channel stations increases. For the first reason, the use of an amplifier after the phaser is recommended; this is especially true when wires less than 328 ft/ 100 m are being used during low-signal conditions [e.g. daytime or auroral night-time]. For the second reason (spurs), a high-Q tuner should be inserted between the phasing unit output and the receiver input. In the first case, a broadband amplifier (cascaded MWA-120's for instance) could be used and in the second case a passive-parallel-tuner could be employed, but the most elegant solution to both the low signal and spur/low Q problems is the use of the APT-2 (Active Parallel Tuner with regeneration capability). Construction and use of the APT-2 tuner (including use as a tunable output amp. for phasing units and loops) was described in a recent DX NEWS article,

Neil Kazaross has reported good results by following his dual-PST-input passive phasing unit with the APT-2. The regeneration feature of the APT-2 is occasionally employed to enhance reception of the weaker Trans-Atlantic 'splits' after phasing has removed the bulk of the adjacent channel domestic-station interference.

MWDX-2: AN IMPROVED PASSIVE PHASER

As most DXers who want to use phasing will be using aerials of length greater than 82 ft/25 m and because most have stated that a single-box design is more convenient. If less flexible, than the modular (3-box) approach, a unit equipped with dual PST-type input tuners will be the subject of this article. This unit, the MWDX-2, offers substantial design improvements over the old MWDX-1.

Complete step-by-step construction details, of the sort offered with MWDX-1 and APT-2, take up much valuable space and are boring to many readers. Such documentation for MWDX-2 will be limited to bare essentials: schematic with itemization of critical parts, hole list, and details of the 'floating' variable-capacitors and RF transformers subassemblies. Data supplied should be sufficient for the experienced 'homebrewer'. The author will supply more detailed information upon request as well as components at cost plus shipping to those who want to build the MWDX-2. The unit should be producible for about \$100 if some of the parts are acquired at ham-radio 'flee markets' rather than at commercial suppliers such as Radio Shack, Mouser, & Etco.

Experimentation with several toroidal core materials has shown that the Amidon FT-82-77 core provides good performance at reasonable cost (90 cents per core). The FT-82-61 cores used in previous designs exhibited some signal loss at frequencies below 880 KHz. The Miller F-87-1 cores work well, but are expensive (now \$5.99 at Mouser). The next round of experimentation here will involve evaluation of pre-made phase-reverser and balun transformers produced by Mini-Circuits Labs, Vari-L, and several other firms. Suffice it to say, if well-performing, reasonably-priced, pre-fabricated RF transformers are found, you'll read about it shortly. Winding transformer toroids and mounting then on vectorboards is one of the more tedious aspects of phasing-unit construction.

Figures 1 through 4 are the schematics for the MWDX-2 one-box dual-PST-inputs type phasing unit. Note the Frequency Range switch charts accompanying Figures 2 and 3. Table 1 lists holes to be drilled in the chassis box. For required tools, construction tips, etc. those outlined in the recent APT-2 construction article should prove to be of assistance.

Figure 5 gives information which should be useful in fabricating the floating (sungrounded) Cl and C2 tuning capacitor card subassemblies.

Figure 6 is the T1 Phase Reverser Card subassembly drawing and Figure 7 is the drawing for the T2 Balun Card.

Peterson ... on ... the move

Fred Peterson, KSLY radio's news fixture for the past 16 years, will now be heard on KUNA.

But the 65-year-old newscaster isn't going anywhere. It's the station that's moving.

Sister stations KSLY and KUNA are trading places.

Starting Wednesday, AM listeners familiar with KSLY's "contemporary hits" style will find it at \$6 on the FM dial.

And FM-96's former tenant, KUNA, will switch its "beautiful music" to AM-1400, KSLY's home. KSLY's "Peterson ... and the news." however, will stay on the AM disal, becoming KUNA's news program.

News on KSLY will be the

responsibility of Annette Zumba, said general manager Guy Paul Hackman, with Peterson doing special projects for the FM sta-

Owned by Dudley White of Santa Ynez, the two radio stations are trading places in order to expand KSLY's audience, Hackman said.

The FM spot covers the area from Paso Robles to Lompoc, Hackman said. The AM station can sometimes be heard in Paso Robles and the South County in the daytime, but doesn't reach Santa Maria, he said.

Though all of KSLY's disc jockeys are moving to the FM dial, Peterson is remaining in AM. That's not a demotion, Hack-

"He relates much better with the 35-plus audience," which is what KUNA is after, Hackman said.

"We needed someone younger (for KSLY); more in tune with the youth market."

A 34-year veteran of the radio business, Peterson came to KSLY in May 1968.

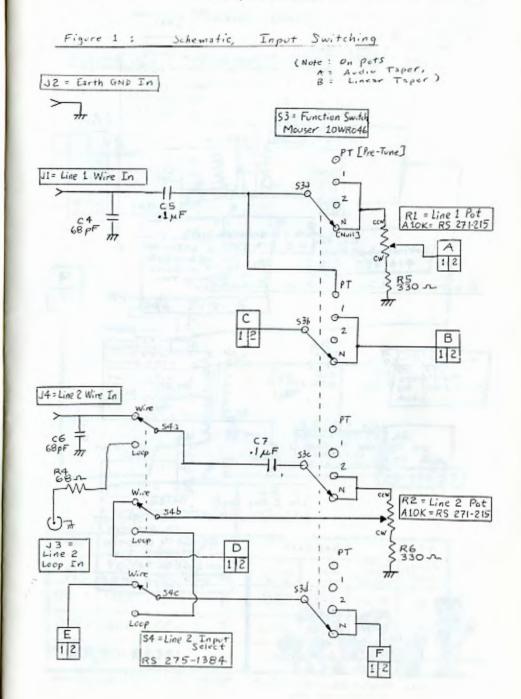
"You've got to go along with progress; you can't remain stagaant." Peterson said of his assignment to KUNA.

"The trend is to FM and they want to weed out the old and bring in the new."

ALSO: KATY 1340 IN SAN LUS OBISTO CA., HAS BEEN SILENT SINCE ABOUT JULY 1983 DUE TO "FINANCIAL DIFFICULTIES"

From: HERMAN PLEW

1 - Box Passive Phasing Unit for Wire Aerials of Length = 25m /82ft.

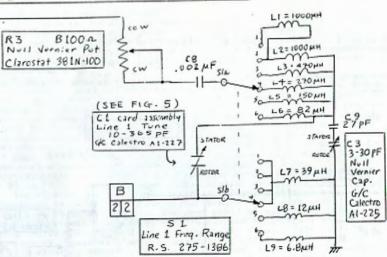


A

2 2

R3

Figure 2 : Line 1 Wire Tuner



Line 2 Wire Tuner Figure 3 : L10=1000MH LI1 = 1000 MIH L12 = 470 MH L13 = 270 MH C10 R7 222 L14 : 150 MH .002 MF L15 = 82 MH CII + 10pF (SEE FIG. 5) C2 card assembly Line 2 Tune L16 = 39 MH TRUTTER G/C Calectro A1-227 526 2 2 L17- 12MH 52 Line 2 Freq. Range R.S. 275-1386 LIB = 6.8MH

51, 5	52 "	Ballpa	rk "	Settin	95 [30	m/100+	t. wires
Range #	Switch Pointer "O'Clock"	F Min. KHZ	Mak.	Range #	Switch Pointer " "O'Clock"	Min.	Max.
1	9:30	450	530	4	12:30	950	1100
2	10:30	530	700	5	1:30	1100	1700
3	11:30	700	950	6	2:30	1700	2400

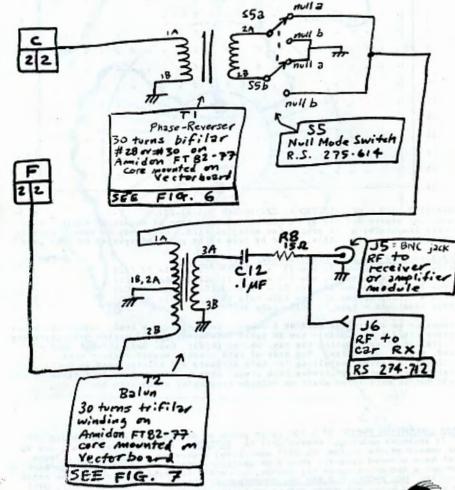
Inductors are Mouser 43LR series, or equivalent

MWDX-2

(15)

Phasing Unit

Phaser Output Figure 4 :



WORX · WCJC

TELEGRAPH III, Inc. . P.O. Box 95 . Madison, IN 47250



1760 Fremont Drive Salt Lake City, Utah 84104 SASSANTO PRES MODERATING COMPANY

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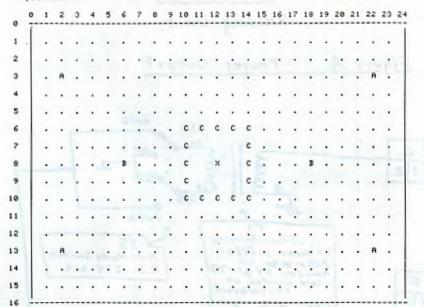
1,3

1,5

20

1.7

[Dimensions in inches x 10: card size = 1.6 inch by 2.4 inch]



CAPACITOR USED = GC-CALECTRO A1-227/MOUSER 524-A1-227 Punch out square defined by 'C' holes. X is center of capacitor shaft. This is top [capacitor shaft protrusion side] of card. Cap. body is behind card as viewed; plates, if visible, would be seen to be pointing upwards on this page.

Corresponding top side chassis holes (per Table 1) Screw 1 (card column 2, row 3) = hole 10 (C1), hole 32 (C2) Screw 2 (card column 2, row 13) = hole 11 (C1), hole 33 (C2) Screw 3 (card column 22, row 3) = hole 13 (C1), hole 35 (C2) Screw 4 (card column 22, row 13)= hole 14 (C1), hole 36 (C2) shaft clearance = hole 12 (C1), hole 34 (C2)

Capacitor is mounted to card at B holes; card topside = head, 6-32 x .25 screw Between card & cap. body - two #6 split lockwashers. 'A' series holes hardware (installed after mounting the cap, on the card): Cap. Body side of card = head; 6-32 x .375 screw. Top side of card - split washer against card, two 6-32 nuts. After installing 'A' hole hardware and placing card such that the shaft of each screw protrudes thru proper chassis holes, install lockwasher and 6-32 nut on each screw shaft on outside (top side) of chassis box.

1983 CONVENTION PHOTO 8° x 12° color photo of the Connecticut Convention. \$5.75 includes mailing. Orders will be EXTENDED beyond January 31st, due to the demand of the photos. We will now accept orders up to March 1st . Those that have ordered recently should be getting yours soon, as we had to go back and get a 2nd printing of the photos, sorry for the minor delay. For the photo send to: NRC PHOTO, P.O.BOX 24, CAMBRIDGE, WI 53523. This product only, will be accepted here, all other orders go to the PUBLICATION CENTER. Do not combine photo order with other NRC products.

*** RETURN ADDRESS LABELS *** When writing to stns, you have been asked to send an SASE or a Stamp or Both! and still end up with marginal results. We have tested and have gotten a 88% return by using a stamp and a self-adhesive label with our return address on them. How can you get better results? Why not purchase 188 labels for a mere \$1.75, price includes shipping! What do they look like, just look on the back of this DXN, same size only difference is that the due dates will be replaced with your country (USA, CANADA, ENGLAND) below the last line. Order from: NRC PUBLICATION CENTER, P.O.Box 164, Mannsville, NY 13661.

FIGURE 6 T1 [PHASE - REVERSING TRANSFORMER]

Dimensions in inches [Board size 1.4" wide x 1.9" height] ,1 .2 .3 .4 .5 .6 .7 .8 .9 10 11 12 13 1A SCREW SCREW HOLE 2 OUT HOLE 2. TICWRAP #2 SCREW

CORE= MILLER F-87-1 or AMIDON FT-82-77 # of bifilar windings = 25 to 35

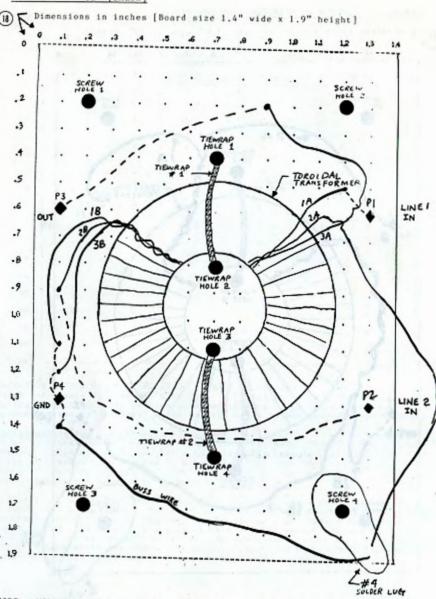
Mounting RF Transformer Card Subassemblies

Stage 1: At card screw hole locations 1, 2, & 3 } install (at each hole) a 4-40 x .25 screw, a split #4 lockwasher, and a 4-40 x .5 hex spacer so that the screw head and the washer are on the transformer side of the card & the spacer [enclosing the screw shaft] is on the backside of the card. At screw hole 4, follow the same procedure, except use a #4 solder lug instead of the lockwasher.

2208

WIRE

Stage 2: Mount the card to the inside of the chassis box by installing 4-40 x .25 screw with #4 lockwasher into each appropriate right side chassis hole (per Table 1). Each screw head & washer will be outside the box; screw shafts, inside box, should be mated to open ends of appropriate RF transformer card spacers. Referring to APT-2 Article Figures 6. 12, and 13 may help.



CORE - MILLER F-87-1 or AMIDON FT-82-77 # of trifilar windings - 25 to 35

SEE NOTES AFTER FIGURE 6 ABOUT MOUNTING CARD TO CHASSIS.

Specifications on Articles Those of you that wish to 'finalize' your articles, you can do so by following some simple rules. Use a new or like new ribbon; use a pica size type; leave 1" on top & bottom of each page; number each page on the back; there are no side margins except the paper litself; try to send us the original or a very good black and clean copy, same goes with drawings; use white 20 pound paper, not onion skin (unless your overseas then alot of these rules are void); try to format your article around a 8 1/2 x 14" page, if possible. If you can follow these rules fine, otherwise just send in what you have and we will fix it up here. Thanks-HQ.

Hole list for MNDX-2 (passive) phasing unit
(X=horiz.distance from vert. centreline: = = left of CL,+ = right)
(Y=vertical distance from lower horizontal edge of side observed)
LEFT SIDE

	Comp.	Description	X(in.)		DIA(in.)
1	J1	Line & Hine In	-1 75		0.3125
2	32	Earth GND In	-1.0	1.0	0.3125
3	13	(Line2)ActiveLoop/TunerIn	0.0	0.5	0.375
4	G1	(Line2)ActiveLoop/TunerIn GND screw, int.lug Line 2 Wire In	1.0	1.0	0.113
5	34	Line 2 Wire In	1.75		0.3125
TOP	******	***************************************	*********	*******	**********
	1.3.	The second second			Jan Sta
Hole	Comp.	Description	X(in.)	Y(in.)	DIA(in.)
1	C3	Null Vennier Can screw 1	-2 766	4.5	0.113
2	C3	NullVernier Cap., shaft NullVernier Cap., screw 2 GNB screw, int.lug Line 1 Pot, shaft	-3.5	4.5	0.5
3	C3	NullVernier Cap., screu 2	-3.234	4.5	0.113
4	G2	GND screw, int.lug	-3.0	5.5	0.113
5	R1	Line 1 Pot, shaft	-2.1875	5.0	0.3125
6	R1	Line 1 Pot, tab	-1.875	5.0	0.14
7	SI	Line 1 Freq. Range, shaft	-1.0	4.5	0.375
8		tine t Fore Brees tob	-0 =		
9	G3	GND screw, int.lug	0.0	4.5	0.113
10	CI	LinelTuneCapCard, screw 1	0.75	5.0	0.14
11	Ci	CNB screw, int. lug LinelTuneCapCard, screw 1 LinelTuneCapCard, screw 2 LinelTuneCapCard, screw 2 LinelTuneCapCard, screw 3 LinelTuneCapCard, screw 3 LinelTuneCapCard, screw 4 GNB screw, int. lug NullVernier Pot, shaft	0.75	4.0	0.14
12	CI	LinelTuneCapCard, shaft	1.75	4.5	8.5
13	CI	LinelTuneCapCard, screu 3	2.75	5.0	0.14
14	Ci	LinelTuneCapCard, screu 4	2.75	4.0	0.14
	G4	GND screw, int. lug	3.0	3.0	0.113
16	R3	Null Vernier Pot shaft	-3.75	2.5	0.3125
17	R3	NullVernier Pot, tab	-3.75	2.1875	0.14
		#11P			
19	54	Line 2 Input Select shaft	-1.5625	3.0	0.113
	54	Line 2 InputSelect tab	-1.3623	3.0	0.373
21	85	Mull Mode Suitach shaft	2.75	3.0	0.14
22	55	Null Made Cuttch tab	3.75	2.75	0.25
23	G6	Line 2 InputSelect, shaft Line 2 InputSelect, tab Null Mode Switch, shaft Null Mode Switch, tab GNB screw, int.lug Function Switch, tab Function Switch, shaft GNB screw, int.lug Line 2 Pot. shaft	-4.5	4.75	0.113
	\$3	Function Suiteh teh	-4.0	1.0	0.113
25	83	Function Suitch shaft	-2.6	1.0	0.14
26	67	CND acres int lun	-2.75	0.5	0.313
	82	Line 2 Pot, shaft	-2.75	0.5	0.113
	R2	arme a ror, amarr	*****		0.0160
		Line 2 Pot, tab Line 2 Freq. Range, shaft	-1.075	1.0	
20	52	Line 2 Freq. Kange, shart	-1.0	1.5	0.375
30	G8	Line 2 Freq. Range, tab GND screu, int.lug	-0.5	1.5	0.14
32	60	und screw, int.lug	0.0	1.5	0.113
36	20	Line2TuneCapCard, screw 1	0.75	2.0	0.14
33	62	Lineziunecapcard, screu 2	0.75	1.0	0.14
34	62	Line2TuneCapCard, screu 2 Line2TuneCapCard, shaft Line2TuneCapCard, screu 3 Line2TuneCapCard, screu 4	1.75	1.5	0.5
35	62	LineziuneCaptard, screu 3	2.75	2.0	0.14
	SIDE		••••	*********	************
Hole	Comp.	Description			DIA(in.)
1	T2	Balun Card, screu 2 Balun Card, screu 4 Balun Card, screu 1 Balun Card, screu 3 RF to car RX, screu 1 RF to car RX, body	-2.25	0.5	. 0.113
2	T2	Balun Card, screu 4	-2.25	2.0	0.113
3	T2	Balun Card, screw 1	-1.25	0.5	0.113
4	T2 T2 J6	Balun Card, screw 3	-1.25	2.0	0.113
5	16	RF to car RX, screw 1	-0.394	2.0	0.14
6	J6	RF to car RX, body	0.0	2.0	0.5
7	J6				
8	G9	GND screw, int.lug	0.0	1.25	0.113
9	J5	RF Out (BNC)	8.8	0.5	0.375
10	T1	Phase Rev. Card. screw 2	1.25	0.5	0.113
11	Ti	Phase Rev. Card. screw 4	1.25	2.0	0.113
12	Ti	GND screw, int.lug RF Out (BNC) Phase Rev. Card, screw 2 Phase Rev. Card, screw 4 Phase Rev. Card, screw 1	2.25	0.5	0.113
13	Ti	Phase Rev. Card, screw 3	2.25	2.0	0.113
		***************************************	2160	6.0	01113

NOTES: C3=GC/Calectro A1-225. Box=Mouser # 537-TF-784 (LMB,18inX6inX3.5in)
C1 & C2 are Mouser # 524-A1-227 or GC/Calectro A1-227 wounted
on vectorboards to 'float' above chassis ground.

Null (2 Level greater than 1 Level, or no difference)

If the station to be nulled is stronger with S3 on 2, or if the difference in the Line 1 and Line Levels is insignificant, put S3 on Null and tweak R2 to get a 'dip'. Leave R2 at dip-yielding position, or return to min. R/ fully CCW if no dip occurred.

Note C2 knob position. Tweak C2 for a dip.

Leave C2 at dip-yielding position, or return to previous position if dip didn't occur.

In all probability, some nulling has been achieved; if so, go to step 1.7, Null Finalization.

If no dipping occurred; set S5 to B and re-iterate this step.

1.7 Null Finalization

Obtain as good a null as possible by successive fine adjustments of Cl. C2. and also of the previously-tweaked pot (R1 or R2),

Finish nulling by using the two null verniers: C3 and R3. (Play R3, then

C3, then R3, then C3, etc.)

2.0 WIRE Vs. LOOP PHASING

A wire may be successfully phased against a loop antenna. Radio Direction finders (RDF's) used on ships and in aircraft have long made use of this principle to resolve the 180-degree 'ambiguity' of conventional figure - 8 pattern loop direction finding. RDF's generally phase a vertical whip against a loop to produce a cardioid (single direction null) pattern. Ron Schatz's 'LSCA' research project has also successfully worked out a scheme to 'uni-directionalize' a loop's null.

The MWDX-2 phasing unit will permit wire vs. active-loop phasing, permitting reception of stations which would have been substantially nulled along with the 'pest' by simple loop-rotation nulling. Such stations could either be on the same (+/- 30 degrees) bearing as the pest station, or on the opposite bearing ((pest bearing + 180 degrees) +/- 30 degrees).

In the MWDX-2 strategy, the loop takes the place of the Line 2 wire tuner

when loop vs. wire phasing is to be done,

As mentioned previously in this article, the input tuners used for phasing should be of moderate, rather than high, Q. Most connercial and homebrew MW loops are designed to be high Q as this is what is desirable in normal stand-alone applications. A non-Q-spoiled loop CAN be phased against a wire, but null stability is 'less than spectacular'

The DXer should modify the loop to be used by installing either a low-value (O to 500 ohm, or less) pot in series with the loop coil or a large-value (e.g. O to 100K) pot across the loophead coil/loop tuning capacitor parallel combination. If you opt for the large-value parallel pot, make sure that it has a switch so that at one position of the pot (usually CCW), the pot can be made to be an open circuit, allowing normal high-Q loop operation. Ensure that the installed Q-pot's shaft is tied to a loop amplifier ground to prevent hand-capacitance detuning problems. A few loops come equipped with Q pots.

A vertical, of 30 meters or greater, phased against a good loop is an excellent low-angle DX antenna configuration for those with limited land and with high available supports. Such a setup, using a 40 meter tall pine as a support for the vertical wire, sometimes surpassed phased Beverages for TA's at local sunset in tests done in Sudbury, MA in 1975 and 1976. Much can also be said for loop vs. Beverage (or longwire) phasing, especially when the wire is oriented for good pickup from a desired-DX target area.

2.1 Preliminary Setup

Power switch on loop to OFF Connect wire aerial (min. length 25 m) to J1 (Line 1 Wire In) Connect grounding wire to J2 (Earth GND In) Connect loop output cable to J3 (Line 2 Loop In) NO CONNECTION to J4

Connect output cable (to RX or Amplifier) to either RF output jack J5 (BNC) or J6 (Motorola)

Cl (Line 1 Tune) will be adjusted in subsequent steps.

C2 (Line 2 Tune) NOT USED, position irrelevant

Set C3 (Null Vernier Cap.) to center (half-meshed)

Set R1 (Line 1 Pot) to min. R / fully CCW Set R2 (Line 2 Pot) to min. R / fully CCW

Set R3 (Null Vernier Pot) to min, R / fully CCW

Set S1 (Line 1 Freq. Range) to range called out in Figure 2

S2 (Line 2 Freq. Range) NOT USED, position irrelevant

Set S3 (Function Switch) to 1

USING THE MWDX-2 PHASING UNIT

1.0 Two Wire Phasing

Use two aerials with a minimum length of 82 ft/ 25 neters. The wires used should be of similar length if possible (this need is less critical if both wires exceed 656 ft/ 200 m). When wires shorter than 200 meters are used, best phasing tends to occur when the wires are separated by a horizontal angle of 45 degrees minimum. Horizontally perpendicular wires, one running to the northeast for europe and one running southeast for the Caribbean would comprise a good wire pair for the DXer in the northeastern USA.

Those with vaster expanses of available land, those able to install true Beverage-length aerials, may have best results with parallel Beverages separated by about 16 ft / 5 m. Terminating one of the Beverages in salt march or other good ground, whilst letting the second one 'float' is supposed to be the last word in phased-Beverages setups. Two parallel unterminated Beverages would probably work just about as well in nost cases, however. A pair of Beverages 'aimed' at Europe (also catching the more northerly-bearing Africans) and a second pair of Beverages favoring the eastern Caribbean/South America/southerly- bearing Africans is seen as the ultimate antenna farm for east coast US/Canadian international DXers. Add a loop and possibly a vertical and 'high-intensity DXing' should be greatly facilitated.

Preliminary Setup

Connect one wire to J1 (Line 1 Wire In) Connect other wire to J4 (Line 2 Wire In) Connect grounding wire to J2 (Earth GND In)

NO CONNECTION To J3

Connect output cable (to RX or amplifier) to either RF output jack J5 (BNC) or J6 (Motorola)

Cl (Line 1 Tune) will be adjusted in subsequent steps. C2 (Line 2 Tune) will be adjusted in subsequent steps.

Set C3 (Null Vernier Cap.) to center (half-neshed)

Set R1 (Line 1 Pot) to min. R / fully CCW

set R2 (Line 2 Pot) to min. R / fully CCW

Set R3 (Null Vernier Pot) to min. R / fully CCW

Set S1 (Line 1 Freq. Range) to range called out in Figure 2

Set S2 (Line 2 Freq. Range) to same range as S1

Set S3 (Function Switch) to 1

Set S4 (Line 2 Input Switch) to Wire

Set S5 (Null Mode Switch) to A

1.2 Line 1 Tune

Adjust Cl for peak signal at frequency of interest. If Cl produces maximum signal when fully open, set S1 one position CW [next lowest indicator] and then peak-tune Cl. If Cl produces maximum signal when fully meshed, set Sl one position CCW [next highest inductor] and then peak-tune Cl.

1.3 Line 2 Tune

Adjust C2 for peak signal at frequency of interest. If C2 produces maximum signal when fully open, set S2 one position CW [next lowest inductor] and then peak-tune C2. If C2 produces maximum signal when fully meshed, set S2 one position CCW [next highest inductor] and then peak-tune C2,

1.4 Level Comparison

Set R3 to middle of its range. Switch S3 back and forth between 1 and 2. Note whether position 1 or 2 of S3 produces a stronger signal from the dominant station to be nulled.

1.5 Null (Line 1 Level greater than Line 2 Level)

If the station to be nulled is stronger with S3 on 1, put S3 on Null and tweak R1 to get a 'dip' (point at which moving the control either CW or CCW from the dip position increases signal). Leave Rl at dip-yielding position, or return to min. R/ fully CCW if no dip occurred. Note Cl knob position. Tweak Cl for a dip.

Leave Cl at dip-yielding position, or return to previous position if dip didn't occur.

In all probability, some nulling has been achieved; if so, go to step 1.7, Null Finalization.

Set S4 (Line 2 Input Switch) to Loop Set S5 (Null Mode Switch) to B

2.2 Line 1 Tune

Adjust Cl for peak signal at frequency of interest. If Cl produces maximum signal when fully open, set SI one position CW [next lowest inductor] and then peak-tune Cl. If Cl produces maximum signal when fully meshed, set Sl one position CCW [next highest inductor] and then peak-tune Cl.

Line 2 (Loop) Tune

Set S3 to 2. Set loop's Q-pot to maximum Q setting. Physically orient loop to favor the general direction of the desired DX station, even if such orientation would also bring in 'pests'.

Turn loop power on. Adjust the loop's tuning cap. for peak signal at frequency of interest. Note the signal strength (on S-meter if possible). Tweak loop's Q-pot to reduce signal level about 6 to 12 dB.

2.4 Level Comparison

Set R3 to middle of its range.

Switch S3 back and forth between 1 and 2.

Note whether position 1 or 2 of \$3 produces a stronger signal from the dominant station to be nulled.

2.5 Null (Line 1 Level greater than Line 2 Level)

If the station to be nulled is stronger with S3 on 1, put S3 on Null and tweak R1 to get a 'dip' (point at which moving the control either CW or CCW from the dip position increases signal). Leave Rl at dip-yielding position, or return to min. R / fully CCW if no dip occurred.

Note Cl knob position. Tweak Cl for a dip. Leave Cl at dip-yielding position, or return to previous position if dip

didn't occur.

In all probability, some nulling has been achieved; if so, go to step 2.7, Null Finalization.

If no dipping occurred; set S5 to A and re-iterate this step.

2.6 Null (2 Level greater than 1 Level, or no difference)

If the station to be nulled is stronger with S3 on 2, or if the difference in th Line 1 and Line 2 levels is insignificant, put S3 on Null and tweak R2 to get a 'dip'. Leave R2 at dip-yielding position, or return to min. R / fully CCW if no dip occurred.

Note loop tuning cap, knob position. Tweak loop cap, for a dip, Leave loop cap, at dip-yielding position, or return it to previous position if dip didn't occur.

In all probability, some nulling has been achieved; if so, go to step 2.7. Null Finalization.

If no dipping occurred; set S5 to A and re-iterate this step.

2.7 Null Finalization

Obtain as good a null as possible by successive fine adjustments of the loop's tuning cap., C1 of MWDX-2, the loop's Q-pot, and also of the MWDX-2 pot previously tweaked (R1 or R2).

Finish nulling by using the two null verniers: C3 and R3. (Play R3, then C3, then R3, then C3, etc.)

3.0 Amplification of MWDX-2 Phasing Unit Output

Often, especially with wires shorter than true Beverages, insufficient wanted-station signal remains after nulling a 'pest'. Several amplification schemes are possible. For tunable amplifiers, MWDX-2 S3 can be initially switched to Pre-Tune (PT); the output anp. is tuned as if it were connected to a wire. After this is done, the amp, can be considered 'invisible' and can be left in the line while phasing proceeds from step 1.1 or 2.1. The same can be done with a broadband amp, having an input pot: with MWDX-2 S3 on PT, the pot is set to get the maximum signal at the frequency-of-interest, consistent with no spurious signals.

Alternately, the amplifier can be installed 'in-line' between phaser and receiver after phasing (by means of a direct MWDX-2 to RX connection) has been completed. Refer to the recent APT-2 article for ideas.

...

A REVIEW OF THE SONY AM-STEREO RECEIVER

MODEL SRF-A100

By: Albert S. Lobel

Recently my wife gave me one of those new Sony AM-Stereo receivers as a combination birthday and Hannukah present. I had been talking for some time about getting one. Unfortunately she could not make it a total surprise as she had to ask me for the model number so she'd know exactly what to get me.

I got the receiver on December 6, 1983, my birthday. Since that time I had time to use it and can now give my review on this new Sony AM-Stereo Receiver and give my honest opinion of AM-Stereo.

The Sony AM-Stereo receiver is very small and compact. However do not let the small size fool you. This little receiver can really put out a lot of very good sound. Just try connecting it to a larger amplifier via a cord from the plug provided on the receiver; be sure to use a stereo cord. I did just that with mine the day after I got it and was really amazed at how good the sound was. Good quality sound is not the only thing that this receiver can give. It does real good at receiving all types of AM-Stereo broadcasts. The only drawback is that it will not receive the Kahn-Hazeltine system of AM-Stereo in the same manner as it receives all other types of stereo broadcasts. There is a slide switch provided on the left side to which you must place in either position "A" or position "B". Position "A" is used for the Harris, Magnavox, and Motorola systems while position "B" is used for the Kahn-Hazeltine system. The only way to tell if you are not sure which system the particular station is using is by the quality of the AM-Stereo signal. There is no stereo indicator to tell you when you are receiving an AM-Stereo signal. The receiver does have a tuning indicator that shows when the station has been properly tuned in.

You would think that a receiver capable of receiving AM-Stereo would be a poor receiver when it comes to sensitivity and selectivity. This is not so with the Sony AM-Stereo receiver. There are two slide switches provided on the top. One adjusts the bandwidth for normal reception and for stereo reception. the other changes between the normal monaural AM mode, the AM-Stereo mode and FM-Stereo; yes, it also receives FM-Stereo. No FM SCA mode. This DX'er may soon remedy that. A look inside shows that there may be sufficient space to put another small circuit board to decode FM SCA signals. I enjoy hearing those exotic signals the FCC doesn't want you to hear. By putting the bandwidth selector switch in the normal position the receiver becomes more sensitive and selective. It also helps to tune in the station regardless of whether it is AM-Stereo by using the normal bandwidth position with the mode selector set to monaural AM reception. If you want to find if you are tuned to an AM-Stereo station you should set the bandwidth switch to the wide position and the band selector to the AM-Stereo position. If you are tuned to AM-Stereo you should hear a stereo signal when the system you are tuned to corresponds with the position set to the stereo type selector switch on the side.

Other features include a tone control, separate on/off switch, AC-power plug (no AC-power cord is provided but is available from Sony or from your local dealer) and a carry strap which can be used in several positions. The receiver, of course, has two speakers for true stereo by itself or with another external amplifier via the plug provided on the side which can also double as an earphone jack. In fact, it is marked 'ear phone jack'!

The Sony AM-Stereo Receiver (Model SRF-AlOO) is a good receiver for the DX'er who likes to hear those new AM-Stereo signals. It can also be a good buy as a small compact FM DX receiver.

WDAF - Radio 610 kc 2

Signal Hill - Kenses City, Misseuri 64708

REMINDER: For those of you that write overseas, we remind you that all the clubs within ANARC, of which we are part, have agreed to protest to those countries that continue to practice intentional jamming of international shortwave broadcasts. We ask that you either not report to station in those countries anymore, or if you do, please send along with your correspondence a protest to their continued practice of intentional jamming.

Mark Connelly - WAIION DX Labs - 23 Jan 1984

Recently, an article describing the step-by-step construction and use of the APT-2 (Active Parallel Tuner with Regeneration) appeared in DX NEWS. Several design enhancements have occurred, giving rise to the subject of

this article, the APT-3.

This article is meant to be a companion piece to that on the APT-2. One principal difference between the two tuners is that regeneration adjustment has been made simpler and less 'touchy' on the APT-3. A Q-pot is used instead of the former regen, vernier. A side benefit of the Q-pot is that use of the APT-3 as an input module in a phasing system has been improved. The recent MWDX-2 article discusses the merits of adjustable Q in phaser input-tuner nodules.

Regeneration has also been improved by a modification to Al, the Front End Card Subassembly. A buffer stage, using an MPS918 transistor, appears after the regen, feedback loop. Neil Kazaross had noted that the case of obtaining regeneration on the APT-2 was somewhat influenced by the impedance characteristics of the receiver used. Different receivers load the APT-2 output differently causing variations in regeneration performance, chiefly in terms of control 'touchiness'. Performance with high-impedance receiver inputs (e.g. car RX) was generally superior to that obtained with low-impedance receiver inputs such as found on some communications receivers and on portable-radio coupling-coil inputs. The buffer stage in Al of the APT-3 eliminates these performance variations. Of course, even the best buffer can be overloaded by an excessive signal (whether regenerated or not). The inclusion of an input attenuator pot [R1] as the level pot, instead of an output attenuation pot, helps one to apply accurately the most signal possible to the tuner, consistent with no spurs/no overloading.

An RF-source jack has been incorporated so that the output of a loop or the output of a phasing unit may be tuned, amplified, and (if desired)

regenerated.

Shutting the APT-3 power off bypasses the input (antenna) to the output (receiver). This feature is necessary especially in mobile applications so FM

and non-DX AM can be enjoyed without having to disconnect the tuner.

Construction steps are not included as they are very similar to those supplied with the APT-2 article. If you could build the APT-2, you shouldn't have any difficulty building the APT-3 by using the documentation in this article. An important difference between the two units is that a larger box (5 x 4 x 3 inch) is used for APT-3. This box permits Cl to be a more-durable air-variable capacitor of metal construction (GC/Calectro A1-227, Mouser 524-A1-227).

If compactness is necessary, stick with the APT-2 design, perhaps borrowing whatever APT-3 features can be accommodated in the small box. The APT-3 offers slight improvements over APT-2; these aren't enough to make

existing APT-2's obsolete, however.

Documentation to follow includes: Figure 1 (Main Schematic), Figure 2 (Front End Card Schematic), Figure 3 (Front End Card Roadmap), Tables 1-A and 1-B (Approximate S3 Frequency Range Switch Settings), and Table 2 (Chassis Box Hole List). This documentation, along with the APT-2 article, should serve as guides to construction. Write to me if you need more construction details.

The usage notes are, of course, similar to those for the APT-2. Differences do occur, however, so it's necessary to read this new usage

write-up.

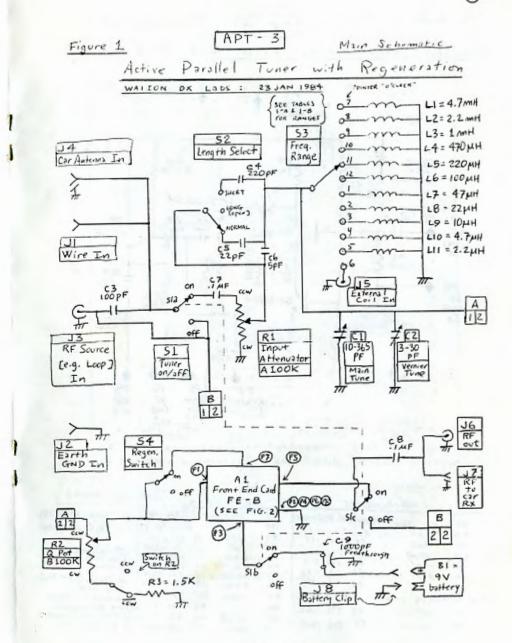
Another use, beyond those in the main body of the article, to which the APT-2 and APT-3 may be put is that of spotting oscillator. In this role, the active tuner is set into intentional over-regeneration (oscillation). No antenna connection is made to the tuner's input jacks; rather, the output is connected to a T-adapter (Pomona 3285). One T adapter jack feeds a coaxial cable going to a digital frequency counter, the other jack couples the oscillation signal to the receiver. If the receiver is using a wire antenna, the oscillation signal may be coupled through a small (e.g. 10 pF) capacitor or large resistor (over 10K) from the wire antenna to the T-adapter jack noted above. If the receiver is getting its signals from a rod antenna or from a loop, connect a short piece of wire (e.g. 1 meter) to the T-adapter, thereby coupling oscillation signal through the air. Such a setup will allow accurate frequency determination on receivers having dial calibration of insufficient accuracy.



tingofthe Dakotas

Jamestown, North Dakota 58401

KSJB SERVING THE TOP OF THE NATION





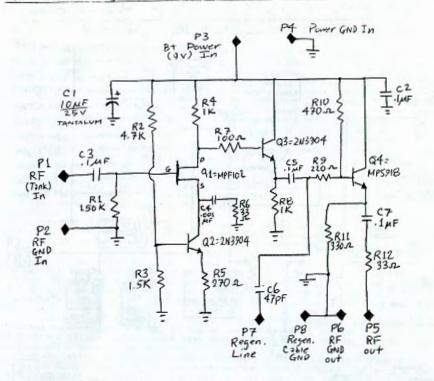
NO. 1 MAIN STREET LAS VEGAS, NEVADA 89101

Figure 2

FE-B

A1 of APT-3

Schematic: Regenerative Front End Card



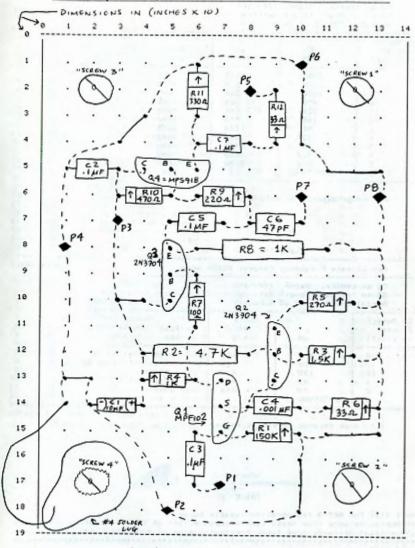
Front End Card component designations are a separate entity from main - assembly component designations.

		сом	PONEN	TS REQUIR	60 F	OR FE-B		: Radio Shack)
. —	ci	10µF/25+	1.4	540-DTS25-10643		2N3904 : R	S 276-1603 Neuser 597-MPS	RI 330.1 : RS 271-1315
	62	.IMF	= R5		RI	150K = 45	271-047	KIZ 3742 117
	6.3	- I par	F.5		RZ	4.7K : RS	271-1330	Miscallaneoxs
	64	.001 AF		5 272-126	123	1.5K . AS	271-025	Cree APT-2
	C 5	-1 45			R4	IK RS	271-1321	article]
	66	4795	. R	411	R5	2702 1 RS	271 -1314	performant [1.4x1.7in]
	ct	. I AF		5 272-111	×6	33. RS		Buls Wife
P1.P2	. 13. 04	1.95, P6 PH	Apins .	RS 270-1392	67	1002 = KS	271-1311	(4) 4-40 x /2" spaces
	QI	MPF102	. 8	5 276-2062	R8	IK . RS		
	Q2	2 N 3404	R.		R9	270A : RS	171-1517	(6) 4-40 x 1/4" SCHEWS

Depend on W/14/AS Radio 84

Figure 3

Readmap: Regenerative Front-End Card



T = LONG LEAD OF VERTICALLY - MOUNTED COMPONENT

RENEWAL RENEWAL RENEWAL RENEWAL RENEWAL RENEWAL RENEWAL

Is it that time of the year again for you? Trying to weight which magazines to stay with? Uncertain which one gives you more dollar for dollar? If your reading this then your decision should already have been made! Only DX NEWS offers you the famous CUBAN LIST only DX NEWS offers you to the minute with call letter changes with AM SWITCH. Do we need to go on? Of course not, your mind is nade up. Your going with

Approximate Frequency Ranges

C2 at centre. Regen. (\$4) off \$2 to 'normal' length setting . Aerial = 100 ft. / 30 m. wire

S3 Switch Pointer (o'clock)	L	fain kHz	fmax kHz
7	4700	130	250
8	2200	170	338
9	1000	248	490
10	470	360	700
11	228	510	1030
12	100	740	1450
1	47	1130	2200
2	22	1688	3400
3	10	2450	4900
4	4.7	3500	7000
5	2.2	5100	18888
6	EXTERNAL	•	

* = range depends on ext. L value

Table 1-B

Approximate Frequency Ranges: REGEN mode

C2 at centre. Regen. (\$4) on. \$2 to 'normal' length setting Aerial = 100 ft. / 30 m. wire

S3 Suitch Pointer (o'clock)	L	fain kHz	fmax kHz
10	478	320	450
11	220	448	648
12	188	638	930
1	47	920	1390
2	22	1398	1988
6	EXTERNAL		

TABLE 2

Hole list for APT-3 regeneration-capable tuner (X=horiz.distance from vert. centreline: - = left of CL,+ = right) (Y-vertical distance from lower horizontal edge of side observed) LEFT SIDE

Hole	Comp.	Description	X(in.)	Y(in.)	DIRGIN.)
1 2	J2 J1	GND in	-1.5	0.5	0.3125
3	13	RF source in (BNC)	0.75	0.5	0.3125
5	G1 J4	Car Ant. In, screw 1	0.0	1.125	0.113
6	J4 J4	Car Ant. In, body	1.0	0.894	0.14
		Car Ant. In, screw 2	1.0	1.288	0.14

APT-3 Hole List

Hole	Comp.	Description	X(in.)	Y(in.)	DIR(in.)
1	CI	Main Tuning Cap., screu 1	-1.625	3.125	0.14
2	C1	Main Tuning Cap., shaft	-1.625	2.5625	0.5
3	C1	Main Tuning Cap., screu 2	-1.625	2.0	0.14
4	R1	input Atten. pot, shaft	-1.875	0.625	0.3125
5	R1	Input Atten, pot, tab	-1.5625	0.625	0.14
6	G2	GND screw, int.lug	-1.25	1.125	0.113
7	\$1	On/Off switch, tab	-0.625	0.625	0.113
8	\$1	On/Off switch, shaft	-0.875	0.625	8.25
9	\$2	Length switch, tab	0.0	0.375	0.113
10	82	Length suitch, shaft	0.0	0.625	0.25
11	G3	GND screw, int.lug	0.0	1.5	0.113
12	R2	Q pot, shaft	0.75	0.625	0.3125
13	R2	@ pot, tab	1.0625	0.625	0.14
14	G4	GND screw, int.lug	1.4375	0.625	0.113
5	54	Regen, switch, tab	1.875	0.375	0.113
16	\$4	Regen, switch, shaft	1.875	0.625	0.25
7	\$3	Freq.Range switch, shaft	1.125	1.75	0.375
8	\$3	Freq.Range suitch, tab	1.625	1.75	0.14
19	C2	Fine Tune cap., screw 1	0.125	3.568	0.113
9	C2	Fine Tune cap., screw 2	0.568	3.125	0.113
21	C2	Fine Tune cap., screw 3	0.125	2.682	0.113
22	C2	Fine Tune cap., shaft	0.125	3.125	0.5
23	J5	Ext. Coil in (BNC)	1.5	3.375	0.375
24	G5	GND screw, int.lug	1.5	2.75	0.113

Hole	Comp.	Description	X(in.)	Y(in.)	DIACIA.)
1	J8	Battery Holder, screw 1	0.2813	2.5	0.113
2	JB	Battery Holder, screw 2	1.25	1.625	0.113
3	A1	FrontEndCard, screw 1	1.625	0.5	0.113
4	A1	FrontEndCard, screw 2	1.625	2.0	0.113
5	81	FrontEndCard, screw 3	0.625	0.5	0.113
6	R1	FrontEndCard, screw 4	0.625	2.0	0.113
7	C9	B+ in feedthrough cap.	-1.375	0.5	0.188
8	G6	GND screu, int.& ext.lugs	-0.75	8.5	0.113
9	J6	RF out (BNC)	0.0	0.5	0.375
10	37	RF to car RX, screu 1	-1.375	1.894	0.14
11	37	RF to car RX, shaft	-1.375	1.5	0.5
12	37	RF to car RX, screu 2	-1.375	1.106	0.14

NOTES: C1 is GC/Calectro * A1-227. J8 is Acme type. C2 is Etco * SV408 Box = Mouser # 537-TF.779 (5" x 4" x 3")



From Craig Healy: " At a recent GTG, some of us discussed the possibility of chartering a bus to go to Colorado Springs next Labor Day. I've checked with quite a few bus companies in this area and came up with two good quotes. The better of the two would have us leave RI on the evening of the 29th of August (Tuesday), stop overnight Wednesday in Indianapolis, and arrive in Colorado Springs Friday morning. The return trip would be similar. The round tip price would be about \$130/person if all seats are filled. The bus seats 47. Departure point in RI would be T.F.Green Airport. This has the advantages of accessibility, central location and long term automobile parking. Traffic congestion isn't a problem, either. I need to know how many people are interested in this. I'm not looking for a binding commitment yet. Just gauging interest to see if it's worth pursuing further. Oh yes, the hotel or motel room in Indianapolis is extra." (Craig Healy, 66 Cove St., Pawtucket, RI 02861)

- 1.0 NORMAL TUNING (wire or car whip operation)
- 1.0.0 Initialization
- 1.0.1 [Note - S2 positions: normal-up, long=middle, short=down] Set S2 to 'long' if wire length exceeds 300 feet in an area with no strong local stations [hereafter defined as 'rural' area] or if antenna is longer than 75 feet in an area with strong local signals [hereafter defined as an 'urban' areal. Set S2 to 'normal' if the antenna is shorter than the 'long' specifications, but longer than 15 feet. Set S2 to 'short' if antenna is 15 feet or shorter. Double all length specs, if operating frequency is lower than 400 KHz.
- Connect the appropriate antenna to J1 or J4.
- 1.0.3 Set S4 to down (regeneration off),
- Set C1 and C2 to center (variable capacitors half-meshed). 1.0.4
- 1.0.5 R1 to fully counterclockwise (CCW): (maximum signal level).
- Set R2 to fully CCW (maximum Q). 1.0.6
- 1.0.7 Connect receiver, with coaxial cable, to J6 or J7. The receiver should be of a shielded (metal case) variety. A transistor portable radio can be used if its rod antenna is kept far enough from the wire acrial to prevent unwanted feedback and instability.
- 1.0.8 S1 (power) to ON (right).
- 1.0.9 S3, the frequency range switch, can be preset by referring to Table 1-A; this, however, is optional: S3 will be accurately set in steps 1.1.1 to 1.1.3.
- 1.1.0 Tuning
- 1.1.1 Run S3 through all of its positions; find the position which yields the
- maximum DESIRED FREQUENCY signal. (Don't peak on a spur.) Adjust Cl for peak signal. If Cl yields maximum signal at fully open
- [fully CW], move S3 one step clockwise (CW) (- next lowest value inductor) and then repeak Cl. If Cl had yielded maximum signal at fully-meshed [fully CCW], move S3 one step CCW (=next highest inductor)
- and repeak Cl.
- 1.1.3 If, in step 1.1.2, a good peak couldn't be found, or, as the desired signal peaked, an off-channel station's audio simultaneously became clear (e.g. spur or cross-modulation overloading), set S2 to next longer-antenna position (e.g. to long if it had been on normal) and re-iterate steps 1.1.1 and 1.1.2.
 - 1.1.4 If spurs/overloading still occur when the desired frequency is peaked and \$2 is on long, use R1 to reduce the input level to the point that the desired frequency signals are 'in the clear'.
 - REGENERATIVE TUNING for higher gain and selectivity
 - NOTES: (1) With APT-3 design, regeneration is only used between 320KHz & 1900 KHz. (2) The battery must be 'fresh' (7 volts minimum, loaded) for regeneration to work properly, even though 'normal' tuning can be achieved with batteries running as low as 5 volts.
- 2.0.0 Initialization
- 2.0.1 Tune the antenna 'normally' by performing all Part 1 steps.
- 2.0.2 Set R2 to midrange (= partially reduced Q).
- 2.0.3
- Set S4 to up (regeneration on). Observe Table 1-b. Change position of S3, if indicated, so that frequency range inductor selected is optimized for regeneration.
- 2.1.0 Tune/Regenerate
- 2.1.1 Perform step 1.1.2 (Cl peaking). If, at any time, regeneration
- (squealing) breaks out, move R2 slightly CW until it stops,
- 2.1.2 After C1 has been peaked, gradually turn R2 slightly CCW in SMALL INCREMENTS, while simultaneously repeaking Cl after each incremental R2 adjustment.
- 2.1.3 When regeneration breaks out, or when selectivity is so tight that received audio becomes 'mushy', carefully play Cl and R2 so that, to the best of your ability, you have a Cl-peaked-signal condition at the 'borderline of regeneration', as set by R2. When Cl peaking gets too touchy, use C2 instead.
- 2.1.4 If satisfactory regeneration occurs, there's no need to do subsequent Part 2 steps.
- 2.1.5. If regeneration/oscillation only occurs with R2 fully CCW or if

- adjusting regeneration with R2 becomes too touchy, step 2,1.7 should
- 2.1.6 If, even with both R1 & R2 fully CCW and C1 peaked, regeneration cannot be established, set S2 to next longer antenna position, set R2 to midrange, and re-iterate procedure from step 2.1.1 onward.
- 2.1.7 With R2 set at the most-CW position producing oscillation, use R1 & C1 to set peaked maximum useful selectivity condition. Use C2 when C1 adjustment becomes excessively touchy. C1 (or C2) must be retweaked anytine Rl is adjusted.
- REGENERATING THE OUTPUT OF AN AMPLIFIED LOOP OR THE OUTPUT OF A PHASING 3.0 UNIT (ACTIVE OR PASSIVE)
- 3.0.0. Active (= built in amp.) Loop
- 3.0.1. Set S1 to off. Connect the loop output to APT-3 J3 (RF Source In).
- Set S2 to normal length position. 3.0.2
- Do steps 1.0.3 through 1.0.7. 3.0.3
- Peak desired frequency in normal manner with loop tuning capacitor. 3.0.4
- Treat the loop's output as if it were the signal from a wire. Perform 3.0.5
- steps 1.0.8 through 1.1.4. Once the loop signal has been peaked through the APT-3, the loop 3.0.6
- position may be adjusted to obtain a 'pest-null' (if desired). Regenerate by executing part 2 procedures, starting at step 2.0.2.
- Passive Phasing Unit with Pre-Tune Function 3.1.0
- Make usual antenna and ground connections to phasing unit. Connect 3.1.1 the phasing unit's output to J3.
- Set phasing unit function switch to Pre-Tune. Set APT-3 S2 to short. 3.1.2
- Perform steps 1.0.3 through 1.1.4. 3.1.3
- Execute customary phasing unit pest-nulling procedures. 3.1.4
- Regenerate by performing part 2, starting at step 2.0.2. 3.1.5
- Phasing Unit without Pre-Tune Function 3.2.0
- 3.2.1 Set S1 to off. Do step 3.1.1.
- 3,2,2, Do steps 1.0.3 through 1.0.7.
- Execute customary phasing unit pest-nulling procedures. 3.2.3 If the phaser is passive, set S2 to short. If the phaser has active
- 3.2.4 Line 1 and 2 tuners, set S2 to normal.
- 3.2.5 Perform steps 1.0.8 through 1.1.4.
- Regenerate by performing part 2, starting at step 2.0.2. 3.2.6
- 4.0 USE OF APT-3 AS LOOPHEAD TUNER/AMPLIFIER
 - NOTES: (1) The term 'loophead', for the purposes of this discussion, refers to the actual pickup coil part of a loop antenna system. (2) Two loopheads will probably be required for complete coverage of the 500 -1700 KHz MW band. Other heads may be fabricated for LWBC, 160m, etc.
- 4.0.0 Preliminary Setup
- 4.0.1 Fabricated air-core or ferrite loophead(s) to be used. These should be of a single-winding type with connections to be made at each end of the
- For each head, prepare a piece of RG174 cable of 2 foot maximum length. 4.0.2 One end of the cable should be fitted with a BNC plug; the other end should have bared leads (shield and center conductor).
- On each head, solder the bared center conductor of a prepared cable to 4.0.3
- one lead of the loophead winding. Solder a short insulated hookup wire jumper from the prepared-cable 4.0.4
- bared shield to the other lead of the loophead winding.
- Connect the BNC plug of the cable (whose other end goes to the 4.0.5 loophead) to J5, the external coil input jack of the APT-3,
- 4.1.0 Normal Tuning of Loophead
 - NOTE: Receiver should preferably be of a shielded type so that unwanted feedback / undesired oscillation may be avoided.
- Do not connect anything to J1, J3, or J4 of APT-3.
- If the receiver is being operated on batteries or if a cable greater 4.1.2 than 3 feet is to connect J6 or J7 to the receiver, a ground connection to J2 is desirable. The ground chosen may be an earth ground rod or pipe, a mains ground, or a vehicle chassis ground.

(32) Using the APT-3

4.1.3 Set APT-3 controls initially as follows: S2 to 'long' . S3 to EXT. L (6 o'clock pointer position) C2 to center (12 o'clock or 6 o'clock) RI to fully CW

R2 to fully CCW (= maximum O) S4 to down (regeneration off)

S1 to Power ON (up)

Cl is to be adjusted in next step Connect receiver to J6 or J7 of APT-3. Tweak C1 to obtain maximum

signal at frequency of interest.

Position loophead for null of 'pest' and/or peaking of a desired station.

4.2.0 Regenerative Tuning of Loophead

4.2.1 Perform steps 4.0.1 through 4.1.5 as a prerequisite.

4.2.2 Perform these steps in the order indicated: 2.0.2, 2.0.3, 2.1.1, and 2.1.3. NOTE: Frequency coverage range with a given loophead may differ in the 'normal-tune' mode from that noted in the 'regenerative-tune' mode. Normal-mode range is generally greater as the parallel capacitance of the regeneration circuit is not switched in.

5.0 LOOPHEAD INDIRECT COUPLER

5.0.1 The loophead may be placed close to a wire, pipe, or electrical conduit to which a direct connection cannot (and/or should not) be made. One example is the conduit going to the electric meter on the outside of a house. Of course, the loophead, in this application, will not have nulling capability.

Position loophead near coupling source.

Perform 'normal tuning' steps 4.1.1 through 4.1.4. 5.0.3

5.0.4 Move loophead through various placements near the coupling source to maximize signal; then repeak C1.

5.0.5

To regenerate after having peaked Cl. perform steps 4.2.1 and 4.2.2.

From Page 33

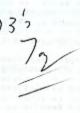
1570 KLOV CO Loveland -Doylestown - Heard to ID as "The Oldies Station", WBUX PA must have gone to oldies format, to go with their talk shows (TF). 1580 KPIK Colorado Springs - Religion (WH). 1600 KXVI TX McKinney - Contemporary Christian (CG).

Well, that is a good column, with a great trip through Metro Denver, and the Dallas - Forth Worth Area! Our contributers this time have been

> WH-Wayne Heinen, Aurora, CO. CO-Charles George, Dallas, Tx JN-Jay Novello, Endwell, NY TP-the guy who typed this, in Fairfield, CT.

It would be really helpful to include the city of license with the station ... I used the 1982 log to locate cities or towns, and guessed at a few of the towns..so if I am wrong...sorry! Also, if appropriate, do include the network.....thanks, ladies and gentlemen. And, for the rest of the membership, let us hear from you!!





FORMATS

THE MONTH CLUB

TONY FITZHERBERT 356 JACKMAN AVENUE FAIRFIELD, CT 06430

Well, this month finds us with a lot of entries in the column which has the impact of an air conditioner sale in February in the Nome Nugget. Thanks are due to Wayne Heinen, who turned his radio on in Colorado, and really gives us an update, and to Charles George, of Dallas, TX, who also contributed. Now, for the silent majority (or mute majority!), if you hear Benny Goodman on 890 in Chicago, or the Cleveland Symphony on 1150 in Wilmington, or Reverend Ike during evening drive on 1060 in Philadelphia, by all means write 720 interested people would like to know! Here are this time's entries.

```
Spanish, Mexican programming. (WH)
                      Las Vegas -
        KNOE
                      Monroe
                                      CWM (WH).
                                       CWM (WH).
        KLZ
                      Denver
                                      24 hour contemporary rock (CG).
570
                 TX
                      Dallas
        KRXQ
        KIIX
                      Fort Collins -
                                      CWM (WH).
                                      MOR days, OLD evenings, RKO satellite
630
        KHOW
                 CO
                      Denver
                                       over night (WH).
                                     Religion (CE).
        KSKY
                      Dallas
680
        KWKA
                 NM
                      Clovis
                                      CWM (WH).
                                      Spanish, Mexican (WH).
690
        KRMX
                 CO
                      Pueblo
                                       CWM (WH).
        KEYR
                 NE
                      Terrytown -
                                      Talk, Talknet (WH).
        KNUS
                      Denver
                      Grand Prairie - Adult Contemporary (CG)
730
740
780
        KKDA
                 TX
                      Colorado Springs - CWM, NBC (WH).
        KSSS
                      Porest City - CWM, per s/off and verie (TF).
        WBBO
                 NC
                                      REL., ID's as "Sunlight 78" (TF).
News, Talk (WH).
Rock, ID's as "85-2" (TF).
780
        WABS
                      Arlington -
850
        KOA
                      Denver
850
870
        WOZO
                 NY
                      Penn Yan
        KJIM
                 TX
                      Fort Worth -
                                      Big Band (CG).
910
                      Denver
                                       Religion (WH).
        KPOF
                                       Top 40 (WH).
        KIMN
                      Denver
         KFEL
                 CO
                      Pueblo
                                       Religion (WH).
                                       Jazz, station is ex-KNOK ?? (CG).
         KSAX
                 TX
                      Fort Worth -
                                      Religion (WH).
CWM, ID's as "Radio 990", with "Fresh
Country Air". (TF)
                      Denver
         KRKS
         WNYR
                      Rochester -
                                       Adult Contemporary, ex KHEE??? (WH).
1000
        KRDZ
                      Hayden
                                       CWM(WH).
1010
        KCMP
                 CO
                      Brush
                                       Nights - Spanish, Mexican (WH).
1020
        KBCQ
                      Roswell
1040
         KPCC
                 TX
                      Dallas
                                       Religion(CG)
1060
         KLMO
                 CO
                      Longmont
                                       CWM (WH).
                                       All news (CG).
1080
        KRLD
                 TX
                      Dallas
                                       Big Band, MYL type stuff (WH).
1090
         KKBB
                      Denver
                                       Oldies (WH).
1150
         KRZN
                      Englewood -
                      Highland Park
                                     - Adult Contemporary (CG).
         KVIL
                 TX
1170
         KSOR
                      Windsor
                                       MYL type format. (WH).
                                       AOR (WH) .
         KADE
                 CO
                      Boulder
1190
                                       24 hour CWM(CG).
         KLIP
                 TX
                      Dallas
                                      Spanish, Mexican (WH).
Top 40(WH)
                      Denver
1220
         KBNO
                 CO
1230
         KDZA
                      Pueblo
                      Colorado Springs - Adult Contemporary (WH).
1240
        KROO
1270
         KSSA
                      Fort Worth -
                                       Spanish, Mexican (CG).
1280
         KBRQ
                      Denver
                                       CWM, all night from the Country Music NET.
                      Colorado Springs - Talk, News (WH).
1300
         KVOR
                 CO
                                       Adult Contemporary (WH).
1310
         KFKA
                 CO
                      Greelev
         KAAM
                 TY
                      Dallas
                                       Oldies (CG).
1340
         KDEN
                       Denver
                                       All News (WH).
                 CO
                      Pueblo
                                       CWM (WH).
1350
         KIDN
1360
         WKOP
                       Binghamton -
                                       Now oldies, has dropped CWM, ID's as
                                       "K-Gold" (JN).
                                       CWM (CG).
         KXOL
                       Fort Worth -
                                       CWM (WH).
         KTMG
                       Deer Trail -
1390
         KJZZ
                 CO
                       Denver
                                       Big Band, Jazz, ex KFML????(WH).
1400
         KFTM
                       Fort Morgan -
                                       CWM(WH).
                                       MYL type music (WH).
1430
         KEZW
                 CO
                       Aurora -
1440
                                       CWM (CG)
         KDNT
                 TX
                       Denton
                                       CWM (WH).
1450
         KYOU
                      Greelev
                       Colorado Springs - Top 40 (WH).
1460
         KSYN
                                       Adult Contemporary (WH).
1470
         KSIR
                       Estes Park -
1480
                                       24 hour CWM, ex KBOX?? (CG).
         KMEZ
                       Dallas
         KBOL
                                       Adult Contemporary (WH).
                       Boulder
1510
         KDKO
                 CO
                       Littleton -
                                      Black Programming (WH).
1530
         KCMN
                 CO
                       Colorado Springs - MYL type music (WH).
1550
         KQXI
                       Arvada
                 CO
                                     Gospel, Religion(WH).
```

ERIC BUENEMAN 836 LAMPLIGHT LANE HAZELWOOD_MO 63042 (314)-895-1436 (1700 TO 2400 ELT)

Welcome to another Bandscan Column. To start things off this month, we have a daytime scan prepared by RICK OVERNANN of Florissant, NO, and el editor, Mick was using a Gt Superadio with no external antenna, and el editor was using a scalistic DX-200 and an SM-2. This scan was combined by el editor.

```
A GE Superadio was combined by of Dand an SM-2. This scan was combined by of Dand an SM-2. This scan was combined by of Dand an SM-2. This scan was combined by of Dand an SM-2. This scan was combined by of Dand an SM-2. This scan was combined by of SM-2. This s
                                      550
                                     560
                                   580
                                                          WILL, Urbana, IL

WRTH, Wood River, IL

WMTH, Cedar mapids, IA

WREC, Memphis, TN

WDAF, Kansas City, NO

WTMJ, Milwaukee, WI

KXOK, St. Louis, NO

MOI, Ames, IA

WMSO, Collierville, TN

WSM, Nashville, TN

WSM, Nashville, TN

ILO

KRAB, Omsha, NE

WMAQ, Chicago, IL

KFEL, St. Joseph, MC

KSTL, St. Louis, MO

WLM, Cincinnati, OH

WHSM, Kansas City, NO

WHSM, Chicago, IL

KFEL, St. Joseph, MC

KSTL, St. Louis, MO

WHSM, Cincinnati, OH

WHSM, Kansas City, NO

WON, Chicago, IL

KWRE, Warrenton, NO

WVLN, Olney, IL

WSB, Atlanta, GA

WJR, Detroit, MI

WJEC, Indianapolis, IN

WFOC, Last Frairie, MC

WFOCK, Pontiac, IL

KALD, Last Frairie, MC

WFOCK, Pontiac, IL

WILL

WFOCK, Pontiac, IL

WILL

WFOCK, Pontiac, IL

WILL

WFOCK, Pontiac, IL

WFOCK, Pontiac, IL

WILL

WI
                                   590
                                 600
                                 610
                                620
                                640
                              650
                              660
                             680
                             690
                             700
                           720
                           740
                                                             WSB, Atlanta, GA
WJR, Detroit, MI
WEM, St. Louis, MO
WBBM, Chicago, IL
WRMS, Beardstown, IL
WAKY, Louisville, KY
KREI Francischer
                           760
                           770
                         780
                                                                                                                                                                                                                                                                                                                                                                                                                                                  KFMO, Flat giver, mo
KWOS, Jefferson City, MO
                                                           WARI, Louisville, KY

KREI, Farmington, MO

WKZI, Casey, IL

CKLW, Windsor, ON

KCMO, Kansas City, MO

WDDW, Johnston City, IL

WAIT, Chicago, IL

WSWI, Evansville, IN

KBOA, Kennett, MO

WHAS, Louisville, KY

KFUO, Clayton, MO

KWOS, Jefferson City, IL

WANG, Harrisburg, IL

WARY, Frinceton, IN

KBTC, houston, MO

1250

WISY, Belleville, IL

MIDF, Mock Island, IL

WGBF, Evansville, IN

KFUO, Clayton, MO

1290

WIRL, Feoria, IL
                        800
                                                                                                                                                                                                                                                                                                                                                                                                                                                     mede, Harrisburg, IL
                      810
                                                                                                                                                                                                                                                                                                                                                                                 1270 MLIC, Charleston, IL
                                                                                                                                                                                                                                                                                                                                                                                                                                                     wnbf, nock Island, IL
                      830
                                                                                                                                                                                                                                                                                                                                                                               1280 AYAO, Potosi, NO
WGBF, Evansville, IN
1290 WIRL, Peoria, IL
WGBL, Benton, KY
1300 WFRA, West Frankfort, IL
1310 KOKX, Keckuk, IA
1320 KSIV, Clayton, NO
                    840
                                      MAAS, Louisville, KY
O KFUC, Clayton, MO
O KFUC, Clayton, NE
O KKOW, Pittsburg, KS
O KRVN, Lexington, NE
MDB, Nashville, TN
O WLS, Chicago, IL
O KFAL, Fulton, MO
O KLON, Blytheville, AR
WAKO, Lawrenceville, IL
O WGNU, Granite City, IL
O WGNU, Granite City, IL
O KWOC, Poplar Bluff, MO
WTAD, quincy, IL
O MMAIK, Mt. Vernon, IL
O KKIK, Jefferson City, MO
O KGIR, Cape Girardeau, NO
O WGIR, Cape Girardeau, NO
O WGIR, Cape Girardeau, NO
O WGIR, Chester, IL
O WGAL, Carthage, IL
O WGSL, Chicago, IL
O WGSL, Chicago, IL
O WGSL, Chicago, IL
O WGSL, Chicago, IL
O WGSL, Carthage, IL

                                                                                                                                                                                                                                                                                                                                                                       1290
                      850
                                                                KFUO, Clayton, MO
                 890
                                                                                                                                                                                                                                                                                                                                                                                   1340 KAEO, Mexico, MO
1350 WJBD, Salen, IL
                 900
                910
                                                                                                                                                                                                                                                                                                                                                                                   1360 KEKE, Fort Madison, IA
                                                                                                                                                                                                                                                                                                                                                                                                                                           wPRC, Lincoln, IL
                920
                                                                                                                                                                                                                                                                                                                                                                                                                                             KJCF, Festus, MO
              940
                                                                                                                                                                                                                                                                                                                                                       Apringfield, IL

1480 wJbw, Feoria, IL

1480 wJbw, Jerseyville, IL

1490 wEbL, East St. Louis, IL

1500 wFMB, Vandalia, IL

1510 wINU, nighland, IL

1520 wnOw, Clinton, IL

KMPL, Sikeston, RO

1530 KPCR, powling Green, MO
              950
           980
 1000
1010
1030
1040
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1540 WSMI, Litchfield, IL
                                           1580 MUNN, DU QUOIN, IL
                                                 word, Fittsfield, IL
   1550 KEWI, Cape Girardeau, MC
         KTUI, Sullivan, MO
                                                WAIK, Galesburg, IL
   1560
          WPAD, Paducah, KY
                                                 KCLU, Rolla, MC
                                          1600 KAT4, St. Louis, MO
         WOKZ, Alton, IL
   Next Scan: DON KASKEY, San Francisco, CA (please list equipment) (daytime)
                   790 KX-A-CA 1080
810 KGO-CA 1100
                                        KSCO- CA
                                                   1280 KJOY-CA
                                                                         KWUN-CA
   540
       KVIF-CA
                                        KFAX-CA
                                                   1290 KALA-CA
                                                                    1490
                                                                         KTOB-CA
   560
        KSFO-CA
                    860 KTRB-CA
                                  1130
                                         KKDU-CA
                                                   1310 KDIA-CA
                                                                    1500
                                                                          KnTT-CA
       KMJ-CA
                    910 KNEW-CA
                                  1140
                                         KRAK-CA
                                                   1330
                                                         KLDS-CA
                                                                    1510
                                                                          KT IM-CM
   590 KTHO-CA
   610 KFRC-CA
                    930 KEW 4-CA
                                   1150
                                         KPLS-CA
                                                    1340
                                                         KOMY-CA
                                                                    1520
                                                                          MATG-CA
                    940 KFRE-CA
                                                   1350
                                   1170
                                         KLOK-CA
                                                        KSAC-CA
                                                                    1530
                                                                          KEDK-CA
   630
       KCH-NV
                                  1190
                                                                          MATO-CA
        KIDD-CA
                    960
                        KABL-CA
                                         KNOH-CA
                                                   1370
                                                        KARA-CA
                                                                    1540
                    980
                                         KIDE-CA
                                                   1400 KAR-CA
                                                                    1550
                                                                          KKHI-CA
                        KCTY-CA
   640
        KFI-CA
                                   1220
   680
       KNBR-CA
                   990
                        KKIS-CA
                                   1230
                                         KNG-CA
                                                   1420
                                                         ASTN-CA
                                                                    1570
                                                                          KC VK-CA
                                                   1430 ANTA-CA
                                                                          ALC-CA
                                                                    1580
   710
        KFIA-CA
                   1010
                        KI-LI-CA
                                   1240
                                         KEN4-CA
                                         KNRY-CA
                                                   1450 KEST-CA
                                                                    1590
   740 KCBS-CA
                  1050 KOFY-CA
                                                                          KLIV-CA
                                   1260
                                         KOIT-CA
                                                   1470 KACA-CA
                                                                    1600
                                                                          AUDA-CA
   780 KROW-NV
                  1060
                        KPAY-CA
                                          (ex-KYA)
                                                                          KGST-CA
 Next Scan: same contributor, same dull place, unknown equipment (night)
   540 CBK-SA
                                                   1150 KMAN-CO
                                                                    1400
                    750 YNX-Nic. 1010 KCmJ-CA
                                                                         KKKE-CA
        XEWA-MX
                    760 KFMB-CA
                                         CHA-AB
                                                   1160 ASL-UT
                                                                    1410
                                                                          KERN-CA
                    770
                                         KAEG-AL* 1170 KLOK-CA
                                                                    1420
                                                                         KoTH-CA
                        KOB-NM
   560
       KSFO-CA
   580
       KMJ-CA
                    780
                        KROW-NV
                                        KTN4-CA
                                                   1180 KWSO-CA
                                                                         KNTA-CA
                                                                          AAAA-OA
        KTHO-CA
                    790
                        KABC-CA
                                         KBC 4-NM
                                                   1190 KEA-OR
                        XEHOK-MX 1030
                                                                    1450
        KUON-OR
                    800
                                         KTWO-WY
                                                   1200
                                                         WOAI-TX
                                                                          ALST-CA
                                                                   1460
                                  1040
                                                   1210 KCLG-UT
                                                                         KDON-CA
   610
        KFRO-CA
                    810
                        KGO-CA
                                         WHO-IA
                    830
                        WCCO-MN
                                  1050
                                         KEG-MA
                                                          KREW- NA
                                                                    1470
                                                                         KXOA-CA
630
       KOH-NV
        KIDD-CA
                    840
                        WHAS-KY
                                         AN-GAX
                                                          KGYM-CK
                                                                         ACAUM-NA
   640
                                                                    1480
        KFI-CA
                   850 KOA-CO
                                   1060
                                        KPAY-CA
                                                   1220 XAB-XA
                                                                         KWUA-CA
        WSM-TN
                                   1070
                                                   1250 KTMS-CA
   650
                   860
                        KTRB-CA
                                         KNA-CA
                                                                          KYQS-CA
   670 KBCI-ID
                         XEMO-MX
                                  1080
                                        KKLD-TX
                                                   1260 KOIT-CA
                                                                         KnTT-Ca
                                                        KROI-NV
   680 KNBR-CA
                        WAL-LA
                                         KSCO-CA
                                                   1270
                                                                   1510
                                                                         KUA-AA
                                                   1280 KJ01-CA
                   880 KRVN-NE
                                         KWJJ-OK
                                                                   1520
   690
       XETAA-MX
                                                                          KUNA-OK
        CBU-BC
                         KWIP-OR
                                  1090 AZPRS-MA
                                                          KFKN-CA
                                                                          AACY-CA
                                   1100 AFAA-CA
                                                   1290
                                                                   1530
   700
                    890
                        WLS-IL
                                                        AnSL-Ca
        WLW-OH
                                                                          KFDA-CA
                                 1110
                                        KALA-CA
                                                          AMEN-CA*
                                                                   1540
   710
       KFIA-CA
                   910 KNEW-CA
                                                                          Kela-Ca
                   930
                        KHJ-CA
                                         KFAD-NE
                                                   1310
                                                        KDIA-CA
                                                                          KARL-IA
        KIRO-WA#
        KMPC-CA*
                         KSEI-ID
                                 1120
                                        KPNW-OR
                                                   1330 KFAC-CA
                                                                   1550
                                                                          KANI-CA
   720 KDWN-NV
                   940 KFRE-CA
                                         KMOX-NO
                                                          KUFL-OK
                                                                   1560
                                                                          AFRU-UN
   730 CKLG-BC
                   960 KABL-CA 1130 KRDU-CA
                                                   1350 Kano-Ca
                                                                   1570
                                                                          ALAE-NA
                   980
   740 KCBS-CA
                        KFWB-CA
                                         CKWX-BC
                                                   1360
                                                        KFIV-CA
                                                                   1580
                                                                          KLAY-CA
                                                   1370
   750
       KXL-OR
                        KUPI-ID
                                         KWKrt-LA
                                                         Keen-Ca
                                                                          Kn In-AL
                   990
                                  1140
                                                                   1590
                        KKIS-CA
                                        KRAK-CA
                                                   1380
                                                         KTOM-CA
        WSB-GA
                                                                         ALLV-CA
        KERR-MT 1000 KOMO-WA 1150 KFRZ-CA
                                                   1390
                                                                   1600 AGST-CA
                                                        KCLY-CA
  (Don adds: "This is the worst location I've ever had for DX. I have high hills
   behind me blocking off signals from the west, northwest and north and being in
   direct line of sight of every tower in the Bay area. The slop and splatter is
   feroclous...that accounts for the missed frequencies in the bandscan".)
   (If you are looking for a better place to DX, try Los Gatos, CA-el editor)
   Next Scan: ROD O'CONNOR, USCGC "Mallow", anchored in Kawaihae Harbor, HI
   (SITEX/KODEN Marine Radio Direction Finder type 511A, omni-directional antenna mounted 50' above water line, set on ship) (day)
       KMVI, Wailuku, Maui, HI
                                               970 KPUA, milo, mawaii Isl., mi
       KMVI, Wailuku, Maui, HI
KSSK, Honolulu, Oahu, HI
KIPA, Hilo, Hawaii Island, HI
   590
                                               990 KHVH, nonolulu, Oahu, nI
   620
                                              1040 KPOI, Honolulu, Cahu, hi
   650 KORL, Honolulu, Oshu, HI
       KORL, Honolulu, Canu, ni
KKUA, Honolulu, Cahu, HI
KUAI, Eleele, Kauai, HI
KUGI, Honolulu, Cahu, HI
KKON, Kealekekua, Hawaii Isl., HI
KKON, Kealekekua, Hawaii Isl., HI
LIZI Honolulu, Cahu, HI
LIZI Honolulu, Cahu, HI
LIZI Honolulu, Cahu, HI
                                              1080 Kani, monolulu, Cahu, ni
   720
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HERE WE GO! Page Two of the great Florissant Valley Daytime Bandscan.

1350 KIPO, Lihue, Kauai, hI

1420 KCCA, monolulu, Cahu, HI

1500 KUMU, Honolulu, Oshu, nI

1540 KISA, monolulu, Oahu, mI

KIKI, Honolulu, Oahu, HI KHLO, Hilo, Hawaii Isl., HI KAIM, Honolulu, Oahu, HI KNUI, Kahului, Maui, HI KDEO, Waipahu, Cahu, HI

760 790

830

850

870

900

940

570		860		1050			#551-VA		AJIC-AJ	1270	CHAM-ON#	1350	#SAI-CH	1420	
	WKBN-OH WMCA-NY		CJEC-CN	1090	WARP-PR		#A 3A-0.0		wante-no	1280 1290	Wri IC-On		WIXZ-FA	1440	
580 590	WHP-PA		WFLO-VA	1100	WGPA-FA	1340		1530	WVFC-FA		CJEK-CK	1370			-
600	WCAC-MD	880 900		1110	#JAM-FA	1350	WYCB-DC	2540	WALC-FA	Next (day		i figure	w, Vinita	, 04 (1	n
610	WIP-PA WVIA-VA	910	WFLN-PA WSBA-PA	1120	WUST-DC		awna-PA	1	"SAI-FA	1200		0.00	WYA- W-	1150	
620	WHJB-PA	920	WKVA-PA	1.130	WARH-AY WALT-PA	1360	WFLS-VA	1550	nAVA-AV	540 550	KWMT-IA KFRM-KS	860	KKON-KS KKVA-KS	1150	
630			WFTX-MD	1140	WAVA-VA		wnou-Va	1000	Water-No	560	KWTC-MO	900	KHCZ-Art	1170	
640	WEJL-PA WHLO-OH	930 940	WVLV-PA	1150	WDEL-DE	1370	4474-20	1560	WATEL-NO	570	KR.X-TX	910	KGLC-CK	1190	
660	WNBC-NY	340	AGAP-PA		WHUN-PA	1380	MAYZ-FA	1570	Wart-WX	580	KSAC-KS WIBW-KS	930	KSWK-MC	1230	
680		950	WCTN-MD	1170	WaVA-NV		MANS-UC		ATOW-ICL AVGC-MD	590	WOW-NE	950	KJRG-KS		
690	WYIS-PA WELD-WV	960	WHYL-PA	1180	mBetw-NJ	1390	alaha-PA	-,	HEAL-PA		KBHS-AR	970	KAKC-OK	1240	
700		900	WSBY-MD	1180	wann-hy	1400	WEAK-VA	3500	"TYO-MJ		WDAF-XO	980	KMBZ-MO KRMO-MO	1250	
710		970	WAMD-MD		WBDY-VA	1400	WFEC-FA	1590	ndso-ku	620 640	KWFT-TX WWLS-OK	1000	KTOK-OK	1270	
730	WPKX-VA WPIT-PA	080	WBLF-PA	1210	#CAU-PA	1410	WHAU-XD	1600		660	KSKY-TX	1010	KIND-KS	1280	
740		980	WILK-PA	1550	WFAX-VA	3400	M DOV-DE		MF DC-FA	680	KFE4-MO	1050	KGTC-OK	1290	
	WVCH-NJ	990	WV3C-PA	1230	WITH-MD	1420	WCOJ-PA	1610	WAYC-FA	690 710	WHB-MO	1060	KLSM-MO KFDI-KS	1300	
750 760	WBMD-MD	1000	WZZD-PA		WKBO-PA	1430	WhaV-ND	1010	K18774-ra	740	KRMG-CK	1080	KRLD-TX	1320	
770		1000	WRNJ-NJ	1240	WJEJ-MD	1440	WVAM-FA	(NOT	CLAM-XB W 15	780	KSPI-CK	1090	KAAY-AR		
780	WABS-VA	1010	WYST-MD	1250	WCEM-MD	1440	WGCB-PA WOMN-VA	4 10	eard while	790 810	KURM-AR KCMO-MO	1110	KYOC-MO	1340	
790	WTAR-VA		WTGC-PA		WPMG-VA	1450	WTaU-AD	doni	nant is off.)	820	WBAP-TX	1140		1350	
800	WAEB-PA WCHA-PA	1020	WCST-WV KDKA-PA	1260	WWDC-DC	1160	WOL-DC								
	WTMR-NJ	1030	WBZ-MA	1270	WLBn-PA	1460	WEMB-PA WPRW-VA			JII	STICNS AN	D ANSW	ers:		
810	WYRE-MD	1040	WSKE-PA		WCBC-MD	1470	WTTa-MD							- N - 100	
										J	e Kureth	asks:	How long h	as san	18
Next	Soan: Jo	HN MALI	CKY, Pitts	burgh,	PA (Alwa	Art-158) (daytim	e)		A1	SWER: It	first	appeared o	n Janu	ar
540	WARO-PA	860	жамо-ра							11 M C 11	Whe	n Terr	v gave it	up. I	to
560	WFRB-MD	900	WNYN-OH	1150	WASP-PA WKPA-PA	1390	WEMJ-OH WKWK-WV	1590	arLa-ra		pea	red on	June 13,	1985 1	1
570	WKBN-CH	910	WAVL-PA	1170	WWVA-WV	1410	KuV-PA			Te	John Her	man: I	was in Vi	nita i	1
590	WMBS-PA WSOM-OH	940 950	WESA-PA WLIT-On	1190	WSDY-VA	1430	WEIST-NV			1000		4	TH to San	Antoni	٥,
620	WHJB-PA	970	WTKN-PA	1220	WBVP-PA	1440	HO-Onnw				7000	.111 .	ut the 11d	on th	
640	WHLO-OH	1020	KDKA-PA	1250	WTAC-FA	1450	WJPA-PA WMBA-PA				Tha	e II b	ut the IId	Uii Uii	
700	WISR-PA- WLW-OH	1040	WSKE-PA	1280	WKST-PA	1470	WNG4-PA								
730	WPIT-PA	1050	WADC-WV WBUT-PA	1290	WOMP-OH WOLG-WV	1480	WCAS-PA					w_{HI}	tv · am	. fm	
750	WP DX-WV	1060	WACW-OH	1320	WJAS-PA	1490	WAUA-PA				LIND	ARCADE	NORTH FIFT	II STREET	
760	WPIC-PA	1080	WEEP-PA	1340	WSTV-CH	1520	MKDn-mY						ILLE, OHIO 4		
810	WEDO-PA	1110	WWWE-OH WKEG-PA	1360	WIXZ-PA WACB-PA	1530	nBOn-FA						, , , , ,		
						1550	WHYW-FA								
Next	Seant sam	e contr	ibutor fr	om The	Steel Cit	y (or t	is it Stes	1, hi!	(night)	Man	D STUDIOS	AND TO	ANGMITTED		
540	CJSB-ON	650	WSM-TN				Na-sout			ALL	5100105	AND IN	RESELLIER		
550	WOR-NY		WNBC-NY	810	WGY-NY	,,,,	(ex-WKA4)	1000	WIIC-CT KRLU-TX	E STATE OF		是是此時			
220	WKRC-OH		WMA - IL WPTF-NC		WBAP-TA		WFIR-VA	1090	KARY-AR	1					
1000			HI IF-NO		WCCO-MN		WIKH-PA		west-bu	100000	10 2				
560 570	WIS-SC WKBN-OH		FTR-ON	840			MRC-LC	1100	mank-On	100000	-77				1
560	WIS-SC WKBN-OH WHP-PA	690	CFTR-ON CBF-PQ		Whas-KY			1110			The second second				
550 570 580	WIS-SC WKBN-OH WHP-PA WCHS-WV	690 700	CBF-PQ WLW-OH	850	WJW-OH KOA-CO	990	MNOX-TN CDW-MB	1110	WBT-NC KMOA-MO	1000	ese B				ı
560 570	WIS-SC WKBN-OH WHP-PA	690 700 710	CBF-PQ WLW-OH WOR-NY	850 860	WJW-OH KOA-CO CJBC-ON	990	MNOX-TN CDW-MB MCFL-IL		MON-MO						-
560 570 580 590	WIS-SC WKBN-OH WHP-PA WCHS-WV WOW-NE WMBS-PA CKEY-ON	690 700 710 720 730	CBF-PQ WLW-OH WOR-NY WGN-IL CHYR7-ON	850 860 870	WJW-OH KOA-CO CJBC-ON WWL-LA	990 1000 1010	MNOX-TN CBW-MB WCFL-IL WINS-NY	1120	MACA-MO MCAI-MI MACA-MY						-
560 570 580 590	WIS-SC WKBN-OH WHP-PA WCHS-WV WOW-NE WMBS-PA CKEY-ON WSJS-NC	690 700 710 720 730 740	CBF-PQ WLW-OH WOR-NY WGN-IL CHYR7-ON CBL-ON	850 860 870 880 890	WJW-OH KOA-CO CJBC-ON WWL-LA WCBS-NY WLS-IL	990 1000 1010	WNOX-TN CBW-MB WCFL-IL WINS-MY CFMB-ON	1120 1130 1140	AMOA-MO MGAI-MI MMAHA-MY MKVA-VA						-
560 570 580 590	WIS-SC WKBN-OH WHP-PA WCHS-WV WOW-NE WBS-PA CKEY-ON WSJS-NC WDAF-MO	690 700 710 720 730 740 750	CBF-PQ WLW-OH WOR-NY WGN-IL CHYR7-ON CBL-ON WSB-GA	850 860 870 880 890 900	WJW-OH KOA-CO CJBC-ON WWL-LA WCBS-NY WLS-IL CHML-ON	990 1000 1010 1020 1030	MNOX-TN CBW-MB WCFL-IL WINS-NY CFAB-ON KDAA-PA WG4-XA	1120 1130 1140 1150	MACA-MO MCAI-MI MACA-MY						-
560 570 580 590 600 610	WIS-SC WKBN-OH WHP-PA WCHS-WV WOW-NE WMBS-PA CKEY-ON WSJS-NC	690 700 710 720 730 740 750 760	CBF-PQ WLW-OH WOR-NY WGN-IL CHYR7-ON CBL-ON	850 860 870 880 890 900 910	WJW-OH KOA-CO CJBC-ON WWL-LA WCBS-NY WLS-IL CHML-ON WJCW-TN	990 1000 1010 1020 1030 1040	MNOX-TN CBW-MB WCFL-IL WINS-NY CFRB-ON KDKA-PA WOZ-MA WOC-IA	1120 1130 1140 1150 1160 1170	0M-A0AA 1M-IA-A0A AV-A0A AU-20A AU-20A AU-20A AU-20A AU-20A						/
560 570 580 590 600 610	WIS-SC WEBN-OH WHP-PA WCHS-WV WOW-NE WMBS-PA CKEY-ON WBJS-NC WDAF-MO WIP-PA WIP-PA WIJS-PA	690 700 710 720 730 740 750 760 770 780	CBF-PQ WLW-OH WOR-NY WGN-IL CHYR7-ON CBL-ON WSB-GA WJR-MI WABC-NY WBBK-IL	850 870 880 890 900 910 920 930	WJW-OH KOA-CO CJBC-ON WWL-LA WCBS-NY WLS-IL CHML-ON WJC W-TN WMMN-WV WBEN-NY	1000 1010 1020 1030 1040 1050	MNOA-TN CBW-MB HCFL-IL WINS-NY CFRB-CN KDKA-PA WDZ-MA WDZ-MA WDZ-MA CHUM-ON	1120 1130 1140 1150 1160 1170 1180	MACAMO ACAL-AL ACACA ACA						1 60
550 570 580 590 600 610 620 630	WIS-SC WKEN-OH WHP-PA WCHS-WV WOW-NE WMBS-PA CKEY-ON WSJS-NC WDAF-MO WIP-PA WHJB-PA	690 700 710 720 730 740 750 760 770 780 790	CBF-PQ WLW-OH WOR-NY WGN-IL CHYR7-ON CBL-ON WSB-GA WJR-MI WASC-NY	850 870 880 890 910 920 930 940	WJW-OH KOA-CO CJBC-ON WWL-LA WCBS-NY WLS-IL CHML-ON WJCW-TN WMMN-WV WBEN-NY	1000 1010 1020 1030 1040 1050 1060	MNOX-TN CBW-MB WCFL-IL WINS-NY CFRB-ON KDKA-PA WOZ-MA WOC-IA	1120 1130 1140 1150 1160 1170 1180 1190	0M-A0AA 1M-IA-A0A AV-A0A AU-20A AU-20A AU-20A AU-20A AU-20A						16

2. 2	2 040000								0
1240	NROV-VA*	1300	WERE-OH	1370	WSP D-OH	1470	wsan-ka	1540	anti-In
	WTAE-PA	1320	WJAS-PA	1390	WFBL-NY		CHOM-ON	1550	CDE-ON
250	CHWC-CN*	1330	WFBC-SC		#030-S0	1480	whee-on	1560	Washel-MY
000	WNDE-IN*	1340	WSTV-CH	1410	K-V-PA	1500	WTOF-DC	1570	OFOR-ON
260	WAYL-MI	1350	aSLat-Ori	1420	wrik-On	1510	Minte-An		CHLO-CX
270	CHAM-ON#	1360	MSAI-CH	1430	CJCL-ON	100	WLAC-IN	1580	Gad-F.
280	WHIC-OH	1 300	WIXZ-FA	1440	hO-Onnik	1520	Ka-weak	1590	mann-On
590	CJHK-CK	1370	HATK-NY	1450	dJPA-PA	1530	MCKY-On	1600	auriL-NY
100	Town		. Winter	04 (9	hileo nor	table.	built-in	frecite	loopstick
(day		n Eloui	M, VIIII GOL	, он (1	marao por		202020		-
BARRA	KWXT-IA	860	ккол-ка	1150	KSAL-KS	1370	KIKS-KS	1590	K-AK-AK
540	KFROKS	880	Kava-NE	11,0	KN-D-OK	1380	KAUS-CK	1600	KADO-KS
550	KWTC-MC	900	KHCZ-Art	1170	KVOO-OK	1390	KANG-AR		
560		910	KGLC-CK	1190	KJ EN-AC	1400	KAON-OK		
570	KRAZ-TX KSAC-KS	930	WXX-OX	1220	KOFO-KS	1410	KTC S-AR		
580	WIBW-KS	940	K5WM-MC	1230	KODE-MO	1420	ABTN-MO		
	WOW-NE	950	KJRG-KS	20,00	WDDZ-OK	1430	Kell-OK		
590	KBHS-AR	970	KAKC-OK	1240	KOKL-OK	1450	Madh-NO		
		980	KMBZ-MO	1250	KFAY-AK	1450	KKOY-K5		
610	WDAF-XO KWFT-TX	990	KRNO-MO	1260	KGBA-NO	1470	KVIN-OK		
620		1000	KTOK-OK	1270	KWPR-OK	1480	KLEO-KS		
640	WWLS-OK	1010	KIND-KS	1280	KSCK-KS	1490	KBIA-OK		
660	KSKY-TX	1050	KGTO-OK	1290	KUOA-KS	1500	KAV OK		
680	KFEU-MO	1060	KLSM-NO	1300	KBBJ-OK	1520	KOMA-OK		
690	KGGF-KS	1070	KFDI-KS	1310	KFSB-NO	1530	KWCK-OK		
710	WHB-MO		KALD-TX	1320	Kwnn-Art	1540	KLKC-KS		
740	KRMG-CK	1080	KAAY-AR	1330	KFH-KS	1550	KXOJ-OK		
780	KSPI-CK	1090	KFAB-NE	1340	KSEK-KS	1560	K-YA-NO		
790	KURM-AR	1110	KYOC-MO	1340	KTOW-OK	1570	KMY4-OK		
810	ксмо-ио	1130	KCTE-MO	1350	KTL-CK	1580	KLTn-OK		
820	WBAP-TX	1140	NOTE-NO	1000		2,000			

Joe Kureth asks: How long has Bandscan been a regular feature in DA hews?

ANSWER: It first appeared on January 13, 1983 with Terry Klasek as editor. When Terry gave it up, I took over this column. Ay first column appeared on June 13, 1983 in DX News.

To John Herman: I was in Vinita in August of 1981 on a round-trip from my TH to San Antonio, TX (that's before I started DAINE).

That'll put the lid on things this month. GU next month.







(39)

The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, publishers or NRC.

The following should have been in last week's column, it is presented to you now. We apologize for any inconvenience. Onward.... -HQ.

B. G. "Bill" Smith - Route 1, Box 33 - Herrin, IL 62948 (pm 1-23; rec'd 1-26) This is the 3rd year I have belonged to the National Radio Club. I have enjoyed it very much. We have a local radio station here in Herrin that is celebrating its 44th anniversary, having gone on the air in 1946. It was then known as WJPP and has got to be one of the most unusual 250-watt radio stations ever to operate. Every Saturday nite it had two live programs, one from 8-10, from the basement of the then nice, modern studios. This program was known as the "So. Illinois Barn Dance" and consisted of live, local, country, and western musicians, and it was very similar to the "WLS Barndance". The other program was from the "White City Ballroom" in downtown Herrin and featured "live big bands". They usually had Jan Garber, "Tiny" Hill, or other bands well-known in the midwest. Their format was much like the WGN remote broadcasts from the Aragon Ballroom. This created a local sensation, and people drove from all over So. Ill. to attend one or both of these broadcasts. The broadcast bands weren't crowded then, and a 256-watt station could be heard much farther than it could be today. Herrin is also a good area for DX'ing, and I have received 660 American AM stations from 36 of the contiguous 48 states, the most recent being KGHL, Billings, MT. I have pdicked up stations from such diverse areas as WKBW, Buffalo, NY to KFRE, Fresno, CA, and KFNW, Fargo, ND, to KGBT, Harlingen, TX. I have done all of my DX'ing on a Realistic long range TRP circuit No. 12-655, and a GE Superadio, No. 7-2880. 73.

Jim Wallace - 63280 Sand Hill Road - Bellaire, OH 43906 (pm 1-23; rec'd 1-26) (614) 671-9619 It's been a while since I've contributed to this column, but the good news of the past week has prompted me to write. Despite the four inches of snow and cold temperatures on 1-18, it turned out to be a good day around here. First, it was my wife's birthday. But I received the big present: a new job. By the time you read this, I'll be reporting the news for WWVA, Wheeling. Even though my old station, WOMP in Bellaire, is news/talk, WWVA has the best reputation for news in this market. That, along with excellent facilities, better pay and benefits, good management, and that 50,000watt signal, makes me view it as a good move up in the news business. An added advantage is that my folks in the Cleveland area will now be able to listen to me. The other good news from 1-18 was that I logged my 900th station from this location. Fittingly, #900 was logged on 900 kiloHertz - WLSI, Pikeville, KY. It comes after less that 3 1/2 years of DX'ing from here in eastern Ohio. I logged more than 1,860 stations at each of my previous locations in the Cleveland and Columbus areas. I intend to do the same here, probably within the next year. I am nearing 200 verifications from here also. With one exception, none of them duplicates any of the veries I received in Cleveland and Columbus and I don't count call letter changes as new stations. One of the recent loggings was the WBGB test on 1-15. It turned out to be more than just another test for me. When the announcer, Ken Courtright, mentioned a call from Parma, OH, and then went on to talk about former Cleveland TV movie host, Ghoulardi, I realized he was the same Ken Courtright who had worked in Cleveland radio and TV. I called him and we had a nice chat. I learned that he came close to taking a job at WWVA a couple of years ago. It's a small world. 73 and good DX. (Congrats on the move up, Jim -pls)

Niel Wolfish - 15 Donwoods Grove - Toronto, ON M4N 2X4 (pm 1-23; rec'd 1-27) Mid-January DX: Monday 1-16: SSS netted me two new ones. WEKG-810 KY at 5:15 pm with local spots and ID, fighting WGY and WMTS. Then it was down to 800, where WCHA-PA was heard at 5:30 pm EST with local nx by a woman. This was finally my first U. S. station heard on 800, with several already lgged from CAnada, as well as Mexico, Venezuela, and Netherlands Antilles. Wed. 1-18: WWNH-930 NH at 4:57 pm with instrumental mx, ID, and CBS nx, coming right through WBEN's null. WVMT-628 VT (finally!) at 5:55 pm. with local nx. When I joined NRC, Ernie Cooper suggested WVMT as my opportunity to log Vermont. WVMT ended up being my 4th station from the state! Thursday 1-19: WEAN-790 RI in at 12:30 am with phone-in program o/CKSO and WTAR as local CKMW was off. Later that day, at 5:30 pm WEKG-810 was relogged with the same commercial for Brown's IGA in Campton. On to MM 1-23: Decided to try some graveyard DX. Gave up at 1:18 am after relogging CJFP-1400 PQ and CFJR-1450 ON. A couple of veries have made it in here: KCCV-1510 MO and KQYX-1560 MO for early December SSS DX, KBYE-898 OK for the DX test and one that isn't quite a verie: WDEV-550 VT sent me 2 CM's and info, but forgot to send a card or letter! This is unfortunate, because I still have to verify Vermont, and WDEV was not an easy logging. I have written back. Currently sitting with 985 heard and 305 verified (530 veried if you add tapes to the total) (Why not?: -pls), with 43/41 states, 10/10 provinces and 24/21 countries. With 15 to go for the elusive 1000 heard, every station seems that much tougher to hear. Hope to hit the milestone some time in March. 73's.

Bill Townshend - 4500 Conn. Ave. NW #901 - Washington, DC 20008 (pm 1-18; rec'd in Riverside ???) (202) 966-8046 By the time this is seen in pxn, the celebration of another world championship for the Redskins may have come and gone. (Your portion of crow is on the way, hil -pls) On Saturday 12-3 Greg Monti hosted a WADXA GTG at his pad in South Arlington, VA. Of the ten visitors, yours truly was the only BCB DX'er. One of the SWL'ers there, Mark Berman, is now getting into BCB DX'ing. He had a pleasant visit at my DX shack a week after the GTG and I got rid of a couple of surplus rigs via sale, including a Belair LW-MW-SW rig I bought in England in 1966 but seldon use but is still in good cx. He was impressed with my DX-168 and Patrolman CB-8 rigs. (Hmmm -pls) Boy, did Old Man Winter and Jack Frost ever descend on us and practically the whole country over the Xmas weekend. Even Florida got stung by the cold jolt with the citrus and vegetable crops shot to (censored! -pls). Their prices are going up like the Pioneer 18 space probe which is now out of the solar system (it went up from Florida in the Spring of 1972). I saw 3degree F./-16 degree C. on Xmas morning, but it felt like spring ten days later. I might spend the rest of the winter in the Caribbean, hi. (Come on out here, Bill; it's regularly hitting 80 degrees; the trees are in bloom; gardens are getting worked up - you get the picture! -pls) Only 63 days until spring but plenty of time at the dials to pad the logs. I saw the first swimming pool ad in the Sunday paper last week. When spring is really here, I may take my ICF-S5W into the repair shop as there is a loose connection in the audio crt (an intermittent) and the sound is getting a little tinny. I want to have the set ready for the upcoming E-skip/tropo season for FM DX'ing. The set has had almost constant use. I may use my back-up, the trusty 12-655 TRF, which I bought six years ago this spring, coinciding with my entry into the NRC. LXXIII. (Bill, you're lucky I visited the renters in Riverside last night ... your letter had been languishing there at the old address; the P. O. is not forwarding mail here. Anyone sending Muses to Riverside will really find out about Black Holes, hi! -pls)

Nancy Hardy - 2301 Pacific Ave. - Aberdeen, WA 98526 (pm 1-25; rec'd 1-27)

Since Bill is at his Musings "limit," he's making ME Muse, hi. We're having fun going after stations for the contest. This is the most enthused Bill has been about DX'ing in yeas, hi. I'll probably not win, but I've gotten so many (about 30) new stations, that I feel I'm a winner. If I wasn't DX'ing for the contest I'm sure I'd be off doing other things! On January 15 we headed out to a nearby Wash. State Park to camp and DX. Within a half hour of setting up (we have a tent-trailer) at 4:24 pm we heard KYAK-650 with caw mx and ads in good. Went down to 580 and caught 5:00 pm ID from CKXR which was in very strong. CPJC-550 was in with BC nx 5:01-5:10, ad, 5:11 "JC-55" slogan by woman into sports. KLUB-570 heard with "Radio 57, K-L-U-B" ID at 5:21 into instrumental mx. Only other new station for me was CJCL-1430 the next morning, 1-16, fair with ID 3:34 am after "CJCL Sports." Back home again, I heard new KGRV-700 in Winston, OR testing at SSS on 1-21. They had continuous Christian mx 4:30 pm (after KFAM disappeared at power cut) until they signed off 4:50. ID mentioned they had been testing "25,000 watt transmitter." Probably will be on RS soon. Good cx to midwest 1-24 brought CKBI-988 in well with CJVI nulled. ID at 6:15 1/2 pm into Barry Manilow song. Good DX to all! 73/88 (Welcome to Musings again, Nancy. I wish we could get both sides of more "better halves" to Muse! -pls)

Roger Giannini - 1111 Forest Hills Drive - Belleville, IL 62221 (pm 1-23; rec'd 1-27) Remember the HQ-180 purchased at Enfield? Steve Bohac has restored the rx to brand-new condition inside and out with improved audio, Q-Multiplier, and a Torrestronics frequency counter, 4850 Hollywood Court, Dayton, OH. Can be used with a variety of solid state and tube receivers. If Your rx isn't listed write to them and instruction will be provided on how to hook it up. Steve is installing a 2.9 Collins mechanical filter in a Sony 6500W rx and a review will be sent on the selective improvement. PM is nice, too, and I have logged 4 Springfield, IL stations. The promo collecting bug has finally Caught up to me besides pennants in the form of sports stickers and keyrings. Besides Decalcomania perhaps some NRC'ers know of stickers that I could use in my collection. I am interested in other non-sticker promo collectors such as Neil Dickerson - Box 457 - Sharptown, MD who collects station cigarette lighters. He has around 60 of them. This request is for my series of articles for Decalcomania. If anybody has received anything unusual from a station, Please let me know about it. I heard an interesting BKB promo on WMBD-1470 Peoria, IL the other night. Announcing as being the voice for Bradley University for 50 years, Wayne Murphy of Nashville, TN had better answer his Phone with the "phrase that pays" slogan for WSM for he will be a \$1000 winner. Remember David Sollie from the '82 Louisville convention? He fell in love with a girlfriend that he met at the hotel pool. David told me that she pays the hotel a monthly fee in order to use the pool. David was the member for those of your on the WHAS tour that caused the xmtr to be silent for 2 or 3 seconds by opening a door that should not have been opened. Terry and I have not heard from him for almost a year. Obviously married life agrees with him. 73's. (Out of the frying pan, into the fire, hi! -pls)

Harry Hayes - 9 Henry St. - Wilkes-Barre, PA 18702 (pm 1-24; rec'd 1-27)

EST The arrival of DX News is always a happy occasion, except when on the cover is a note that three of our own have passed away. Condolences to the families of Kenneth Brown, John Clements, and Larry Brookwell. I kenw John the best, and his passing at his age was a shock. Condolences to you, also, Paul, on the loss of your and our friend. (Thanks, Harry -pls) Now on the bright side, DX continues good into Southern Europe this week. 1-19 featured fair fair reception of RNE-774 and 855 at 2200 EST. The usual wide variety of mx heard and six time pips on the hour. On 1-21, last night as I write this, cx were slightly better with my being able to parallel the transmissions of 684, 774, and 855. Music range heard: Kim Carnes, Electric Light Orchestra, and classical mx selections. I guess they have to please everybody since this service monopolizes the AM band. Reception peaked at 2045. At 2200 I had an unknown 783 with two clock-like chimes for an IS. More on this in IDXD. It looks as if maybe sunspot quiet is returning! I hope. Last season featured very little DX of the European variety here in Wilkes-Barre. You guys with beverages on the coast might think I'm not looking too hard. While that may have been part of the problem last season, a bigger problem I think are the extensive mountain ranges east of here which I am sure cut down on some signal strength. Last sunspot minimum, circa 1976-77, I was DX'ing exclusively in the Pocono Mts., in the direction of Europe from Wilkes-Barre and TA's literally boomed in on the R-390A and SM-2 that I was using at the time. Now I have those mountains in my way here. I still have the opportunity of DX'ing in the mountains but am hesitant about lugging my HQ-180 around. Other DX: 1-19, 1018 CFPS-1498 Port Elgin, ON with s/off ment. // CFOS. 1745 WRXV-1538 Auburn, ME blasting through WCKY. 1-20 2335 KPRC-1616 doing it up again with r&r and talk about U. S .- Soviet relations, a liberal view. Also mention of an SW outlet. More as it happens.

What Can Happen When A Test Is Scheduled

John R. Malicky -995 Shadycrest Rd. -Pittsburgh, PA 15216 (pm 1-25; rec'd 1-28) Hello, everybody! I don't know where to begin. Should I talk about the weather? (-5 degrees F for a high on 12-24 or -17 degrees F. for a low on 1-21) Nah. How about the Super Bowl featuring the villainous Raiders who crushed the 'Skins, 'Hawks, and Steelers (who went faster than a punctured balloon) Nahl How about ... DXI Okay, I'll start with present things. Before I start, I am serious in saying I express my sympathy to you, Paul, and hope you will recover. (Thanks, John; life goes on -pls) I did not know H. John Clements, but he was probably a great person. It was also not good to see the passing of the other men, Mr. Brown and Mr. Brookwell. // Now to the present. Arrangement of the WBGB test started when I heard them on 12-4 just barely. Mr. Courtright promptly veried and asked that I schedule a test with the club, at an earliest possible date. I made it up almost 3 weeks ahead of time, but little did I know what could happen and did! First, one of my good friends decides to have a party the same night, then my cousin asked to help him pick up stuff in storage belonging to his girlfriend in Hershey, PA (about a 228-mile drive in an 18-ft. Ryder truck) that same morning! Got this so far? Then, though apologetically, Mike Knitter listed the day as Monday, as it was Sunday, as he did make a mistake. This had me worried that some memebers might listen on Monday and one member even called to make sure. Finally, Saturday night came. Let's see you try to explain to your friends why you have to leave a party early to go home and listen to the radio! I did and left at 12:30 am, because I thought maybe WBGB might call me and no one would answer! However, the test went well and thank to all who listened or tried. Mr. Courtright even extended it for 7 minutes. I went to sleep about 2:30 am because I had to be up at 5 am to leave for hershey, but I did. And, as the saying goes, all's well that ends well. // From my last Muse of 11-29 I've heard 41 new stations up to 1,074 and received 29 veries up to 548. This next number may be a little staggering, but I tell you anyway. Since 9-16, I've sent 110 typed reports, 117 with ppc. Return rate not including 12 not sent and 7 ppc is 52 out of 98. Next week I'll highlight them. 73's.

Now....onto this weeks show......but first a word from our sponsors.......

Articles, Articles, Articles We can always use them!! Got a new radio for christmas or some other new DX device? Then, why not sit down and give us your opinion of it. Don't know how to write up your idea, just follow any one of the previous articles on radio reviews. Still got troubles, then just send your details to HQ and we shall help ya out. Okay? Good, so...sit down and write!!!

(Deadline for \$22 is Peb. 25; for \$23, Mar. 3; for the first bi-weekly issue on April 2, Mar. 17. All times should be local; please list your line some)

Jerry L. Bond - 143 Burwell Road - Rochester, NY 14617 (pm 1-20; rec'd 1-23) Continuing from where I left off last week, here's more of the px that has come my way this season. Sept. provided only one new logging after the great SSS session on the 12th and that was WBRW-1170 which made it in at 7:06 pm on 9-18. October started off good with a couple of new MA loggings on the 1st when WCAT-700 was logged at 6:02 pm and then WUHN-1110 plowed through CKJD-1118 at 6:89 pm. On the 5th I logged a new one around sunrise and that was WVIP in famous Mt. Kisco, NY. They were logged at 6:14 am. The next new station to grace the pages of my logbook was WXPX-1393 which was heard on my car radio at 5:50 pm on 18-12. A week later on 18-19 SSS was good again and WNIO-1540 was noted at their 6:46 pm s/off inviting written comments on their programming. Also heard that evening were WSAY-1480 at their 5:47 pm s/off, WBBE-1580 at their 7:81 s/off and WORI-1550 at their 7:15 pm s/off. Two more new ones were logged on 18-20, and they were WACR-1858 and WITY-1120 at 6:58 pm. 1858 is a real toughie here with CHUM/WHN both usually good at SSS and often tough to null so WACR was a very pleasant and unexpected sucprise. A couple more surprises made it though on 10-22 when WBBB-920 was logged at their 6:44 pm s/off and then WCNN-68% came in at 6:59 pm with pesty CFTR nulled. The last week of October traditionally provides some of the best unusual DX of the early season, and this year was no exception. 10-26 finished with three new loggings, and they were WCPS-768 at 6:32, very strong o/WJR; WCHA-899 at 6:26 pm; and WOBL-1320 at 7:37 pm. Unbelievable as it may seem, WCHA was my first U. S. logging on 800. That makes the U. S. country #4 on 800 for me. The reason for this is pesty CJBQ across Lake Ontario in Belleville, ON. They are like a local here, and all I ever get when I null them is CKLW at sunset. When I null CJBQ (also null most of the possible U. S. daytimers I could hear as they are generally almost all south of here. Oh, well- at least I now have the U. S. logged on all the frequencies on AM. 18-27 provided more good SSS cx and among the stations logged that day were WARE-1250 at 5:47 pm, WCII-1080 at 6:53 pm, WPAG-1050 at 7 pm, and WAMJ-1580 at their 7:31 pm s/off. 10-29 was the best SSS yet, and loggings that day included WGPA-1180 at 5:46 pm, WHNC-890 strong at 5:53 pm, WFLO-870 excellent at 5:56 pm, WBRW-1179 at 6:16, WCKB-780 good at their 6:44 pm s/off, WRCW-1868 at their 6:46 s/off, WKNX-1218 at 6:49 pm, and WHOT-1336 (Who? hi -pls) at 7:06 pm. Sunrise DX on the 29th had been good as well as WHAZ-1330, WSYB-1380, WFMD-930, WKVA-920, and newie WYNO-1120 all made it in between 7 and 8 am. Sunrise DX was good on the 39th as well as KPI-649, WHJB-620, WLAP-630, newie WKEE-800, and WLLL-938 all made it in. SSS on the 30th provided one more new one, and that was WFDF-910 at 5:51 pm. Rarely heard WQAM-560 also was noted at 6:40 pm. October closed out with another new logging on 800, and that was WSVS which was heard n/CJBQ with an ID at 5:04 pm on the 31st. Also logged oin the 31st were a couple of rare ones from Wisconsin -WISN-1130 and WAUK-1510. That about wraps up the October OX here - I'll summarize the Nov. and Dec. DX next time around. Till then ... 73.

Kiss 1540 Goodbye

Niel Wolfish - 15 Donwoods Grove - Toronto, ON M4N 2X4 (pm 1-23; rec'd 1-27)

A couple of newspaper reports this week had the following piece of wonderful news: "All Night Long: That's CHIN-1540 radio chief Johnn Lombardi's favourite song these days, thanks to a new AM radio agreement between Canada and the U. S. For the past 18 years Johnny's had to stop broadcasting at sundown each day so CHIN's signal wouldn't cause interference with an AM station in Cincinnati. But now he'll be able to broadcast 24 hours a day, because the new agreement gives Canada access to more than 100 new AM station assignments. Johnny was so happy about the deal that he flew to Ottawa to witness the signing of the deal by Communications Minister Francis Fox and U. S. ambassador Paul Robinson." Needless to say, I'm not too thrilled. 1540 is one of my favourite sunset frequencies, with 24 stations heard, plus WPTR, KXEL, and Bahamas. Better camp out on 1540 before it is too late! 73's.

Verification Highlights

John R. Malicky -995 Shadycrest Rd. - Pittsburgh, PA 15216 (pm 1-25; rec'd 1-28) Good day to all. Starting from the present back to 11-30-83, here are some choice prime cuts of beef - er, veries. Underlined are new On 1-23: KTGR-1580 "Tiger Country" in Columbia, MO for their s/off of PSSA power, as the PD didn't tell me what it was, though their day power is 250 w., with a postmark "Mid-Missouri MO"l Not even a town listing! Also, same day, finally KFDI-1676 Wichita with a v/f, c/m, and OSL card - Great Empire Broadcasting, and, WWBD-790 Bamberg, SC even though I completely had the owner's name wrong, as I thought on tape it was Bert Windsor, Jr. It really was Vic Whetstone, Jr., as he signed a v/l saying I was almost accurate, though I had the announcer as Don Kirby (Guy Kirby) and Pastor Dr. James B. Karry (Dr. James P. Carroll)! At

least I got Jr., Kirby, and Dr. James right, hil On 1-20, WLAS-910 Jacksonville, NC with a computer-type v/1, my first of this kind; is this how they'll all be? I prefer scribble myself! (But you'll take any kind of verie, right? -pls) WLAS's CE mentioned letters like mine "give us an extra thrill!" For PSSA, 1-18 brought WLIL-730 Lenoir City, TN operating with 199 watts until they get authorization for 459.6 watts; 1-16 WPMW-730 Madisonville, KY with 357 watts sending a b/s and ad sheet and from the PD, remembering to "Do It with Frequency!"; and 1-14, WJMW-730 Athens, AL with 3336 watts as the signer, Carl Sampieri, CE, was a former 8CB DX'er (sign him up! -pls) who could appreciate my report and mentioned that PSSA could "open up the band for areas that were closed before." On 1-16, WPNC-1478 Plymouth, NC, liked my "very informative letter." On 1-12 WBBO-785 Forest City, NC sent blank copies of their AM and PM stationery and b/s (Makes you wonder who's been requesting stationery and for what reason ... -pls). The mx dir. asked to come and see them if I'm near ther, and to "have a good-un"!; WETB-790 Johnson City, TN PD's says, "I wish the best to you and your club."; and WBBA-1580 Pittsfield, IL sent blank stationery and writes on the back of the AM and PM c/m's thanking me for PSSA reception, but not given; day power is 250 watts. On 1-7, WBAA-920 West Lafayeet, IN home of Purdue University; the manager says "the accurate detail ... made it very easy to confirm." It was only word-for-word on their news! On 1-6, KCCV-1510 Independence, MO with 10,000 watts sent a v/l, c/m, and ad sheet and a religious program schedule from Kansas City's Christian Voice. On 1-5, WMTS-810 Murfreesboro, Th's Traffic Manager Linda Tipton wondered how I got her name; only the Shadow knows! Why, from Verie Signers! Jumping back to 12-17, WTOB-1380 Winston-Salem, NC's Promotion Manager and secretary are nearby Pittsburgers who miss the city; isn't that nice? From 12-1 on a test WNTN-1550 Newton, MA's CE mentioned he was confused, as I heard their ID through WTHR-Augusta also testing with a commercial and said they are a daytimer and shouldn't have done this. They (WTHB) also didn't verify, but WNTN was "delighted". Also 12-1, WRBN-1600 Warner Robbins, GA rewrote practically 4 items I gave them on my reception report (?? -pls). Finally, WZYS-1448 Cowan, TN sent back a verified copy of my report and explained that the "Hawg" man (dj) is from Ackansas -Razorback country! 73's; next week PSSA and January 5-7 IDXD receptions.

Bruce A. Conti - 39 Bayberry Drive - West Warwick, RI 02893 (pm 1-29; rec'd 1-30) The good DX'ing conditions have continued during the '83-'84 season as the newies keep rolling in, with 19 heard so fac. Even so, I haven't been able to bag anything from the west coast yet. WHLO-648 seems to be on 24 hours with NSP, thus KPI remains unheard. KDAY-1580 is also a possible catch in New England (Hmmm - I can null it enough to hear KNIX, so ... -pls), but CBJ has been running with a continuous 1 kHz tone on MM, although sometimes they're considerate enough to leave just a silent carrier. It seems to me that if the frequency isn't being used for testing or broadcasting, then the station should go off the air. Otherwise, in my opinion, the frequency is being jammed, not allowing the reception of other stations broadcasting on the same frequency. Silent carriers and tones from Canada have also been noted keeping 690, 730, 740, 860, 940, and 1550 tied up. Monitoring 1150 kHz has brought in a couple of surprises in the past week. All times are EST. On 1-18, WDEL-DE popped in a couple of times thru CKOC/YVMN and an unID caw mx station, with WHUE almost nulled out, 8:07 to 8:47 pm. This is the first time I've heard Delaware since 19741 Later that evening, 9:18-18:88 pm, newie CHSJ-NB was in strong for a while before giving in to WHUE/YVMN with "The People's Gospel Hour". On 1-21 at 1156, another newle, WCRK-TN came through WHUE with Mutual nx, local wx, and T40/Disco mx, 6:29-6:47 pm. The DJ had a very southern accent, something you don't really hear on the clear channels of the south. To correct a DDXD report in the 1-23 DXN, I reported WTHB-1558 with caw mx. That should be 3/50%, mx. must have been half asleep when I prepared that report for mailing. I stand corrected. Veries came in from VOA-1588 Antigua, and WNCT-1878 NC. The CE at WNCT said that they were broadcasting with their auxiliary 5 kw transmitter during the time I received WNCT. 73's.

Neil G. Zank - 623 Lyncrest Dr. - Lincoln, NE 68510 (pm 1-30; rec'd 2-1) A few more radio signals have slithered through my speakers, so a Muse is off again. The first date of note is 1-14-84 when fair/good signal in from CJCL-1436 Toronto, ON at 1:35 am ELT with mail order record ad and CJCL weather update. I believe this is first time since using this call. And KHAS-1230 Hastings, NE was ET'ing with TT's and OC, heard 2:10-2:39 am, popped an ID as testing from transmitter site. New on 1-18 was CFFR-660 Calgary, AB with fair signal at times 2:45-2:55 am with rock mx, "66-CFR" slogans, and "CFR Line- 291-0789" for requests. MM 1-23 brought WMPP-1470 Chicago Hts, IL with Black Gospel mx and talk, ID's as WMPP Chicago Hts., all-gospel callo 24 hours a day." Good signal at times 2:25-2:40 am fighting with KRBC. 1-29 provided new, WRRO-1446 Warren, OH to my log 2:38-2:55 as with rock mx, female dj, national ads, and sports scores from area high school basketball games. Good signal most of the time. And 1-30 MM while trying for WZKY test finally noted WLIM-1580 Patchogue, NY on ET'ing 2:03-2:15 am with rock oldies and big band mx plus several taped ID's. I missed hearing this one for a number of years previous to this MM. WZKY never noted here. That brings new DX up to date. Several evenings I have tried 1030 for a shot at new TN stations; I have noted a third behind WBZ, KTWO, with caw mx but no ID snagged yet. We will get this one, I am sure! Two new veries collected since last Muse with WKKE and CKAR in the file now. Total stations heard at 1,325 now, -46/46 states, 9/9 provinces. Most DX'ing done with Panasonic RF-2600 portable or Hammarlund HO-130A; a number of back-ups are available, hi [I'll say, hil -pls]. I love the digital readout of the RF-2600, plus it has provided a lot of DX reception to my macs in the past several years of use.

Two Fine DX'ers Remembered

Dr. Richard E. Wood - College of Education - P. O. Box 959 - Abha, Saudi Arabia This Musing is in memory of Larry Brookwell, the grand old man of San Diego DX, a lovable curmudgeon with lots of stories to tell, and of H. John Clements, the guiding light of the Longwave Club of America, tragically dead of a heart attack (still tentatively -pls) at age 34. Though his skin was pale, he looked healthy, and went far before his time. Some eyebrows were raised at last year's ANARC convention in Roslyn, VA, when a special award, designed especially for him, was announced. ANARC Secretary General Terry Colgan asked the 206-plus participants "How many of you know John Clements?" Only three or four hands, including mine, went up. Neverthalass, "specialty band" award had been created, for work in non-SWBC DX, and seemingly with foreknowledge of John's tragic death so soon to follow - the first one went to him (And he was very proud of it, justifiably so -pls). In DX news here, jamming, the scourge of Middle Eastern DX'ing, continues to grow, and even troubles DX'ers in Finland, which has a south/north pipeline to the Middle East, with, for example, Dammam, Saudi Arabia-1440 usually dominating Luxembourg-1440. Finnish DX'er Simo Solninen reports that the Icaqi jammer against Shiraz, Iran-990 is so loud that East Germany has switched off its jammer against West Berlin's RIAS also on 990. East Germany is chronically short of electricity, and the Iraquis now do the job! My only TA catch this season is R. Globo-1220 with futebol (soccer) 2255 on 1-22 - even in January, it's Brazil, not North America, that I catch. The problem with TA DX here is that the band is dominated by Europeans and N. Africans until 3033 UTC, which is 3 am local. So for a serious TA DX session I have to stay up all night. It's actually easier for Victor Gonnetilleks and other South Asian DX'ers, as that is 5:30 am their time; they just have to wake up early, not stay up in the wee hours. That's probably why they have heard Chile, Peru, Argentina, etc., while I haven't. Kazaross' fine TA DX jibes closely with my observations; his 2201 s/off for Sennar, Sudan-1295 is correct; watch for a hummy, off-the-air relay modulation on this one. This one is listed as a superpower, 1500 kw, but t doubt it; like East Germany but more so, Sudan has electricity generation problems. It's loud here, but I can still get Orfordness, England-1296 thru it, and it lacks the punch of a real superpower like Abu Dhabi-729 or Jedah-648. Vernon's rpt of Poland-1583 being in EE when Swedish is sked is correct; some Swedish be's from R. Polonia have been replaced by EE. If Vernon had Jersey-1826, then he has a new country, Channel Islands, which is not part of England politically or legally. Technically, they are the last remaining part of the Duchy of Normandy and the Queen's title there is Duchess of Normandy. The name of the Libyan pgm on 711, 1251, etc., is not "Voice of Aran Homeland," but "Voice of the People's Revolution." 73.

Tony Pitzherbert - 356 Jackman Ave. - Fairfield, CT 86432 (pm 1-30; rec'd 2-2)

Hi. Time for a Muse although Metro North, plus church
responsibilities, and the presidency of the Western Connecticut Chapter,
National Railway Historical Society ... oh, yes, and Cub Scouts, have kept as
from the dial, although I have DX'ed a few sunsets, lately. Veries are back
from WAEB-790, nice v/f, a v/l, v/q, and b/s from CHH-1260, my report returned,
noted "confirmed" fora WISG-1520. Also, the CE's ham OSt from WLOR-730, a very
nice letter plus b/s from WOTW-900. From WBBD-780, a v/l and thermometer! From
WABS-780, and on a f/u, a nice v/l from WSMN-1590. And thanks to NRC'er Jay
Novello who obtained a WENE-1430 verie for me! The verie noted that a week ago
they got a report and tape from Norway. Thanks to Kermit Geary for two station
profiles - and to several of you for format contributions!! 73's and good DX!!

Pred Vobbe - Box 127 - Temperance, MI 48182 (pm 1-30; rec'd 2-2) This Muse is coming live and direct from the Hyatt Regency in Dearborn, MI. Our sister station, WMJC-FM, is simulcasting the "Morning Show with Jeff and Jer" from the Hyatt ballroom every morning this week. The company got a room for my wife and me for the whole week so I can be right here. bad; it beats the Howard Johnson's in Monroe (hi). I brought my AMS with as with a loop; however, there is too much noise in the building, and WLQV's xmtc site is just miles away! DX on the home front has also been poor due to a local insurance company's computer which radiates some 600 feet in all directions! I'll have to have a talk with those boys. Nevertheless, WTAE was pounding the AMS on 1-13, with a very unusual WQAM several days ago. KOA in Denver was la o/ semi-local WJW which is usually the big one on 850. Strange conditions on 1-24, PJB and another station were hammering the Big-8 (CKLW) at 2003 to 2115. Listening to Wolfman Jack on 6-10-TVN was double good as between records (tapes) I got Kansas City again plus a very strong WIP whipping TVN apart for a good 15 minutes (sorry for the pun pls) (me too, hil -pls). On 2-20 I will be doing a non-directional test of WHND. If you want a verie, send report to 5305 Vineyard Dr. - Monroe 48161. We have new QSL cards on order. Test will be 1230 to 1330

EST. Here's hoping Ernie and Ray on the EC can hear us thru WGAN, WFIL, WHYN, etal. The westerly DX distance is Nebcaska; Frank Merril holds the south by his great catch in Paris, TN in the car! To the east I think NY state. On the other hobby scene, my tape collection grew by 130 tapes. I am sending out new updated lists to everyone currently trading tapes. Some classic mirchecks were 1971 WCFL, 1966 WINS, and 1968 KHJ. Great Stuff! That's about all here from the Hyatt. To those of you that are into mircheck swapping, I would like to hear from you. Special thus to Ken Romstadt, Gacy Siegel, and Prank Merrill for stopping by the homestead. Perhaps one day a convention will see at all together; maybe IRCA Toledo '84! 73's and best of DX always. P. S.: WHND's Monroe studios are now fully remodeled and stereo! If anyone wants to stop by for a peek, give me a call sometime.

Gerry Thomas - POB 2036 - Pensacola, Ft 32513 (pm 1-31; rec'd 2-2)

Hello again. I just wanted to take a few minutes to comment on Dallas Lankford's interesting article on ferrite rod theory and application on a few issues back. I, too, have built and tested literally dozens of ferrite rod antenna designs and have arrived at similar conclusions. Although I haven't gone into the mathematical predictions to the extent that Dallas has, I have noted that, when all is said and done, precious little usable difference between the various designs is discernable. After trying rod configurations as long as three feet, I've gone in the opposite direction to shorter (12 inches of lass) lengths and concentrated on amplifier design. Interestingly, I've found that some of the newer integrated circuits (specifically, the high slew cake IC's with FET immputs) enable very simple design and acceptable noise figures. Using low noise passive components (e. g., metal file resistors, etc.) and optimal source resistor values results in noise levels that are very acceptable in high-Q/narrow bandwidth applications. Right now I'm using a 10-inch rod antenna with IC amplification that has more gain than a four-foot passive box loop or 58-500t long-wire (with anoise level that is less than or equal to the LW). The IC is still slightly noisier than a discrete PET design but less so than a bipolar one. Anyway, I had these technical points on my mind that I felt the need to relay ... sorry to bore the non-technical types. Oh, yeah, Rick Overmann's unfortunate experience with the Hot Rod represents the very first complaint I've had regarding that loop. It must have been damaged in transit because everything is tested at least twice before it is shipped. (All personnel who work in shipping and the P. O. have Murphy as a relative, hi -pls) 73's--GT

William C. Moser - Box 245 - Wishek, ND 58495 (pm 1-30; rec'd 2-2)

Since Doug Beard appreciates my Muses (according to #15), I'd better take a few moments to write! I noted John Malicky's SOS for help getting a response from KFYR. I called their ND toll-free number and talked to Herbert Leupp's secretary about this. If you don't hear from them, let me know, and I'll keep calling. The same goes for any other NRC member. (Could this become a full-time position?) (You know itl -pls) I also noted Ernest R. Cooper's reception of Pargo, ND on FM, but wish he had given call letters. I have a v/1 from WCIB, 101.9, for reception on 6-8-82. FM DX'ing will be harder here this coming season with the addition of several new semi-locals to the PM band. As I look over my list of 33 years of BCB veries, I see that Oregon has been my most elusive contiguous state. My one and only verie is from KGW-62%. WA and CA are heard often, but nothing in between! Now for what I have been hearing. As January comes to an end, so have good SS cx. My only report for the week went to KOYX-1563, heard o/KKAA on 1-26 just before their change to night operation. SRS reports went to CFCW-796 on 1-24, sneaking in between KGHL and KPGO (all 3 with caw formats); KXGN-1400 on 1-25 with ag news o/din; and KLGR-1498 on 1-26 with items for sale from households (garage sale of the air). I appreciated the 1230 kHz station list and map in \$16, and hope the same will be printed for the other local channels. I guess I'm now caught up with odds and ends, so I'll say 73's for now from Dakota Territory.

Sidney E. Marshall - 7224 Pam Dr. - Millington, TN 38053 (pm 1-31; rec'd 2-3)

The 3-week vacation is over so it's back to work for me.

While I didn't get in as much DX'ing time as I had planned, I am satisfied with

the results of the time I did spend at the dial! I must credit the new PSSA 6 pm s/off ruling for adding several new stations to my log book during December and January. Since my last Muse of 1-16 I've added 3 new catches to bring my station total to 1,141 heard. "Newies" are as follows with times shown in CST: On 1-17 between 5:20 and 5:30 pm, WFMW-730 KY was in vary strong with mx, station promo, ID, wx and temp., comments about heavy snow and other local info. On 1-22 at 5:45 pm KNIM-1580 MO surfaced with lengthy station promo and ID. Thenb on 1-26 at 4:44 pm I caught the full s/off announcement of %37C-1198 TN over WHMT. Back on 1-20 I got a nice relog on CFGM-1320 ON which was in at 5:24 pm for several minutes with a local-like signal! It has been over a year since this one was heard for the first time. It's good to see several new names appearing in the Musing column. Also was glad to see neveral names back in this column that had been absent for sometime. While on this subject, due to upcoming work schedule, I'm going to be absent from this column for an extended period of time, so Paul you'll get a Break from my handwritten Muses! (Oh, noo-of What I really need is a break from Muses typed with an ancient ribbon and full of overstrikes! -pls) So till later this year, best of DX'ing to all.

Steve Bazilla - 307 2nd Avg. - Osceola Mills, PA 16666 (pm 1-31; rec'd 2-3)

DX this season: WDCR-1218 heard often. WRID-1528 Homer City,

PA heard a few times very poorly. WNCR-1088 St. Pauls, NC heard at Dec. 8/0 5

pa. Jan. 4: WXPX-1300 West Hazelton, PA very short s/0 5 pm. Jan. 9 WYND-1120

Kc Nelsonville, OH easy here at s/0 right after WVST's s/off. Jan. 13 WLDM-1570

Westfield MA heard easily; must be on PSSA. Bact to Dec. 30: WRTT-1170 Vernon

CT quick s/o; only call given at 4:15 pm. WECO test in; fine signal; sent

thank-you note, received verie. WBGB test heard poorly. Someone with tone

whistle was on the whole hour. It seemed like a semi-local. WAJE Ebensburg,

PAZ Enough copy heard though. Dave Schmidt's name heard. (In vain? Hil -pls)

Above all newies except WECO. KRYZ in A Mess, not copy to Stations which Realing

Springs, WFRB-560 Frostburg, MD, WKOL Amsterdam, NY, WRSC-1390 State College, on

since 12-1, 2500 w. day, 1360 w. night, not known of 57 as heard MM and SM. May

not reach out east or s-east at night protecting WLAN Lancaster.

Kermit Geary - 1266 Riverview Drive - Walnutport, PA 18088 (pm 1-31; rec'd 2-3) I wish to acknowledge rather belatedly the fine time that was enjoyed at NRC's 58th anniversary convention. It was a coal pleasure to meet the many members too numerous to mention individually. Of special interest was meeting old-timers Ernie Cooper and Pete Clarius. Ernie needs no introduction, but newer members may not know that Pete, a real nice fellow, was a DX News editor in 1938-1939, along with leparted Dick Cooper. DX has been fairly good so far this season, mostly auroral until the New Year, but with some recent good openings to the West. Th's, while not so consistent as last season at this inland location, may improve before Spring. New calls verified total 39 since August, for a return to date of 67% on domestic reports. No ceplies yet from EAK64 (882), Spice Island Radio-990 or HRS9 (700), the latter drowning WLW on the am of 11-28. The best veries this season have done from KZYM-1228 (250w), KVVA-860 (first new Arizonian in over 5 years), WMSO-640, WKK6-1180, WS3R-740, CJVL-1360, WGSP-1310, WJCC-1170, WNWZ-1450, WMYD-1370 (180 w. PSSA), WHIY-1190, WWGR-960, and WQIK-1320. I would like to urge all who receive veries to plause forward the names of signers to Wayne Heinen. Knowing to whom to write is more vital than ever in these days of many reluctant verifiers. There should be no reason for not having a "Verification Game" page at least once a month. It is encouraging to note that WKRE-1520 (ex-WEXM), which regularly ignored reports, is now very friendly to DX'ers under new management. The new PSSA's, in general, have been another blow to domestic DX. Although a few new stations were logged, a number of frequencies such as 1378, 1578, and 1588, which were open hunting grounds for southern stations during the midwinter months, now have nearby stations operating until 5:00 or 6:30 pm, by which time sunset has moved well into the Central time zone. It is interesting to note that WTYO-1580 stays on until 6:30 pm when all the other eastern daytimers on 1580 are off at 6:00 pm. Also, how does WSVQ-740 rate only PSA (6:80 am s/on) on the frequency; another PCC goof? Good DX to all!

Brad Lovett - 700 St. Marys Ave. Apt. 227-C - Frankfort, IN 46041 (pm 1-31; rec'd 2-3) CONTRARY to popular belief, I haven't left DX'ing, but it has been awhile since I've Mused. And of course you'll note from the new address that I've moved. Yes, despite sound advice, wise counsel, and possibly my own better judgment I'm back in radio, at WILO/WSHW locally. WSHW "Shine 99" is a 50000 watt Adult Contemporary outlet licensed to Frankfort-Kokomo, and also getting into the Lafayette market. WILO-1578 is your basic local small market operation, heavy on news and community service with a grabbag-type ax format, with A/C, MYL, country, and "The best of the records that never made the top 48" (Oh ... you don't get good service from your one-stop either, hil -pls). Actually, things aren't going too badly here; it sure as heck beats standing in that %#11 unemployment line. (I did beat my ex-employed's challenge to my claim, but not before it went to hearing). I'm in a multi-unit pre-fab type apartment complex, of wood frame which won't hurt my radio hobby too badly, but, of course, there's lots of interference from TV's. I don't have the low-hand amateur radio station going here yet, hopefully soon. It's going to be a "top secret" affair, as the lease prohibits antennas. Dayton Hamvention-goecsl The second annual SWL-DX seminar will be sponsored by the Miami Valley DX Club. We hope to see many of you there. It's open to discussion and attendance by all DX to report, no time. By the way, WILO-1578 has been using full 258-watt power for PSSA till 6. I don't know what we were authorized for 2 hours past sames. every third full moon with 1/2 watt, hil Any DX'ers around here? Let's get in touch! We're located about 50 miles north of Indy. All for now, 73.

Tom Connatser - Route 9, Box 78 - Sevierville, TN 37862 (pm 2-1; rec'd 2-4) ELT. Greetings again from the Smokies. It's great to see Musings appearing again in DX News; sure hope you've got everything squared away as to who gets use of the word processor, Paul. (Por the time being -pls) Also, I hope the volunteer effort will come forth to continue the work on the Domestic Log; I'm really looking forward to the next edition. Some big radio news here in East Tennessee: WIVK-350's last day was Sunday 1-29; station is now using the call WHIG; nothing else has changed, and according to the station

manager nothing else will, except the station's mascot, which will change to the WHIG bird, a bird that looks similar to a parrot and sears revulutionary war garb. The WIVK call is retained by the FM who now admits that their frequency is 107.7, a refreshing change from all that "FM 188" jazz. Changes may also be coming soon to WRIZ-628. Efforts at reorganization have failed, and the station is now in the process of being sold by the bankruptcy trustee. A group from California is interested in the facility and say they will switch to a radigious format if they are able to purchase the station. Just what Knoxville needs another gospel station! Also noted per Steve Francis in the latest DDXD that WGAP-1400 Maryville has dumped the WSM-AP Music Country network and the AN schedule. Music Country net is still available here via WVTN-105.5 Gattinourg. Haven't done that much DX'ing lately; I did take a shot at the WBGB DX test; took me about 23 minutes to find 'em, but I finally managed from 1:23-2:80 Am Sunday morning the 15th, no thanks to Mike for printing the wrong data - and address!! Report sent - to the wrong address; guess I'll have to try again for a verie. Looked for the WCHE f/c on the loth; did heard the famous been at 12:37, but that's all, as everything else was solid WKBW. Yo go on the WKZY test - my copy of DX News arrived too late. That's the first CPC test I haven't heard this year. Maybe somebody can set up another test with them in the future; they are needed here, and I fully suspect I would've heard them had I known of the test. One final note: WNOX-990 has announced that it will carry NASCAR stock car racing and the Motor Racing Network's talk show this year. The talk show ill air Tuesday nights from 7-8 pm ELT. Enough for now. Till next time, 73's.

Stan Morss - R 3 - Bradford, MA 01830 (pm 7; rec'd 2-4)

A late start on the DX season as ground dida't franze till Dec. 18 and is till "open" off and on. The PSSA order has turned sunset DX into a disaster. With channels like 1530 plugged till 6 by WRXV, 1520 by WPOE, 1177 by WJCC, 888 by WCCM, 958 by WROL, 1438 by WXKS, etc., etc. - no new logs due to PSSA but 2 new ones on new clears: WYNO and WSKE. Also reports out to WZON, WWCN, WPKX (all verified) and CHLR and WMYL, plus non-verified CJ33 tried one more time. CHLR kills local WBBX here often - another great Canadian DA. Clear channels will soon look like the graveyard channels did in 1948, by the list of applications on file, with grants possible to up to a fat dozen or most frequencies with applications now on file. Sace glad I made it to 4,888+ veries in the days when it was easy. ANARC's idea to protest jammers when reporting will only result in no verie for the reporter and probably any reporters who don't complain will be ignored too and sure won't stop the jammers. DX groups did the same to Doctor Brinkley when his stations "interfered" on Canadian clears in the 30's. He stopped verifying for a number of years and in his case sued RADEX. I don't have the whole story as I was just a kid DX'er at the time but it didn't help anyone. ANARC will have to set up a hit squad to change the governments and knock out Khomeni, Castro, Andropov, Pres. Hussein, etc. When governments change often times policies change. I only hope I'm lucky enough to hear Iraq, Iran, or some of the Soviet "Republics" here well enough to tape and report. Adv. in Broadcasting magazine for equipment for religious AM and PM in Liberia. Here's hoping for a good open frequency. And don't make any derogatory or comical comments about Zimbabwe's President Baravo (sp?) in your reports - it's 5 to 10 years if you ever go for a visit to that that "freedon"loving nation. PM picked up 1 more percentage point on AM the last survey period so more problems for weak AM's in saturated markets. When A/N stations started to proliferate after WWII letters were printed around the country and an article was printed in Broadcasting about the "poor quality" of A/N programming - that in the days of 50 A/N'ers. Now we've got Larry King and Sally Jessie Raphael and 1,000 A/N (AM and FM). Solution - go with the flow.

Harry Hayes - 9 Henry St. - Wilkes-Barre, PA 18782 (pm 2-1; rec'd 2-4) EST

Latest news: WKRZ AM and FM have been sold again. This pair was sold back in 1988 as WBRE AM and FM to Northeast Radio, Inc. of Springfield, MA for \$850,000. The new buyers, the Reliance Group, an insurance fire based in New York City, are paying \$5.3 million for the two outlets. It seems to me that WBRE, Inc. far underestimated the demand for FM radio stations in this day and age. This is the first radio venture for The Reliance Group. All the above information was gleaned from the Wilkes-Barre Citizen's Voice newspaper for 1-31-84. It has also been reported that the new owners intend to retain formats of the two stations as well as personnel. I heard that tune in 1988 when Northeast Radio took over and shortly afterwards they revamped the existing personnel quite well. No DX to report at all this wask even though I did spend a couple of sessions at the dials. It must be my imagination but I haven't been able to heard much at sunset DX since Dec. 5 when the change took place in extended hours. I will assume I am just having lousy luck at logging new ones and not place the blame on actual circumstances. I was talking to Glenn Jacobs last week and he is still using a longwire pointed west at Moscow, PA. He reports that things like KYW-1060 and several prominent Canadians are absent on the antenna. He also is reporting hearing Pargo on 1200 shortly after sunset and also reports hearing unknown daytimers from the middle west on 648 and 1168.

Richard W. Turner - 286 Hixville Rd. - No. Dartmouth, MA 82747 (pm 2-1; rec'd 2-4) Hello everyone. I'm a former member who has rejoined the NRC after a four-year absence. I'm 29, single, and currently employed as an assistant manager with Thom McAN (Swansea Mall sen's store). I started DX'ing off and on since August 1967 and was a member of the NRC from 1977-79. A couple of months ago, I was bitten by the buy, and a) I buy out my old logs, my reference books, and my Panasonic RP-2980 with a built-in ferrite antenna, and I went to work. Things sure have changed since I was last occupied with this hobby. New call-signs, new stations, new members, even a new look to the DX News. Like I told Ray Arruda in a phone call the other night, I faml like Rip Van Winkel. At any rate, loggings for January: CMKA-630 Cuba, TIW-866 Costa Rica, Radio Paradise-825 St. Kitts, Radio Belize-834 (my first two splits), WJW-850 OH (with WHOH off), WGPP-940 MA, WIBX-k950 NY, WYNZ-973 ME, WWDJ-976 NJ, WNYR-998 NY, WCMX-1888 MA, WTTP-1868 MA, WJCC-1178 MA, WOAI-1288 TX, WXYZ-1278 MI, CKCV-1280 PQ Canada, WRCP-1290 RI, WDLW-1300 MA, WoYK-1350 PA, CJCL-1430 ON Canada, WENE-1436 NY, WFIF-1500 CT, WMRE-1518 MA, and WWRL-1600 NY. Although the above address is my mailing address, I live in Pall River and my phone number is (617) 674-8594. Please feel free to call after 13 pa. Also, many thanks to Ray Arruda for his help. Total overall: 195 stations from 18 countries, 29 states, and 6 Canadian provinces. 73's. (And welcome back into the burgeoning fold, Richard - whatever that means, hil -pls)

Paul Swearingen - 7318 Ensign Ave. - Sun Valley, CA 91352 (818) 765-7651

I had to chuckle a little when I read some of the comments about whether or not to count some of the stations as reported in several columns in the \$17 DXN ... so much worry for nothing. First and foremost, Neal Perdue's admonition that we shouldn't take the hobby so seriously should be followed. (Let's dub that Perdue's Axiom, okay?) But perhaps some uniform rules OF YOUR OWN should be followed. For example, when I tape stations, I don't count domestic catches unless they include two out of three of the following: callsign, frequency, or city of licease; I bend this rule when I tape foreign stations who don't use callsigns; if their slogan is unique, I sometimes accept only that. (My most frustrating tape is one with a very clear "CKWX" and no other ID on it). My "heards" are a little looser; I count only those that I am positive of, and almost always only when I hear a callsign. However, when I report, I'm careful to follow the guidelines set down by the column editors. Now, what YOU do is your own business, but keep Perdue's Axiom in mind when you do it. /// Newest adult toy here is a 1960 Ford shortbed pickup, or perhaps that word should be "fixup". 73.

INTERNATIONAL ACHIEVEMENTS

MALCOM MAXWELL 1041 TUMLIN STREET APT. A ATLANTA, GA 30318

NAME	STATE	YEAR STARTED	TOTAL	TOTAL COUNTRIES	SOUTH AMERICA BEST COUNTRY/STATION
Mike Knitter Sharon Shonera Hilding Gustafson Wayne Heinen Jin Renfrew	WI CT FL CO NY	1974 1974 1934 1964 1976	936 277 858 978 118	17 43 109 19 21	HJVF-1220 Columbia 10Kw R. Demada 760 HJAC-1135 HCRO3- 915

Folks, this is ALL that has been received here to date. Not a very large group!! I know alot of you have heard a few Foreign stations over the past year! Why not go over your totals and send them to me for this column. It's hard to put out a column when so few have contributed, but... a column is here! We had more than these people complaining that there was no IDXA Column, where are YOUR totals!! Why not put your pen and paper where your mouth is, hi!!! Send me your Totals!!!

Eric Buenesan- your award for 30 states was mailed and you should have it soon. One Problem Eric., where are the rest of your totals!? No foreigns!!!!??

I feel like the MAYTAG repairman, HI.

Malcom Maxwell